

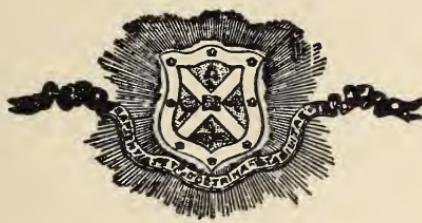


Digitized by the Internet Archive
in 2017 with funding from
Queen's University Archives

<https://archive.org/details/qucalendarmed1929>

Queen's University

KINGSTON, CANADA



INCORPORATED BY ROYAL CHARTER IN 1841

CALENDAR
OF
THE FACULTY OF MEDICINE

SEVENTY-SEVENTH SESSION

1929-30

PRINTED FOR THE UNIVERSITY BY THE JACKSON PRESS
KINGSTON
1929

The course of study for the degrees of M.D., C.M., comprises six sessions of eight months each.

⁶ The attention of prospective matriculants is directed to the statement on page 31 concerning the filing of applications for admission.

All announcements and regulations contained in this Calendar apply to the current session only.

The Faculty of Medicine reserves the right to make such changes in the regulations and courses of study at any time as experience may prove desirable.

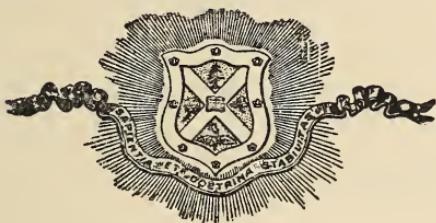
All requests for information should be addressed to the Secretary of the Medical Faculty, Queen's University, Kingston, Ontario.

Queen's University
Library

KINGSTON, ONTARIO

Queen's University

KINGSTON, CANADA



INCORPORATED BY ROYAL CHARTER IN 1841

CALENDAR

OF

THE FACULTY OF MEDICINE

SEVENTY-SEVENTH SESSION

1929-30

PRINTED FOR THE UNIVERSITY BY THE JACKSON PRESS
KINGSTON
1929

CONTENTS

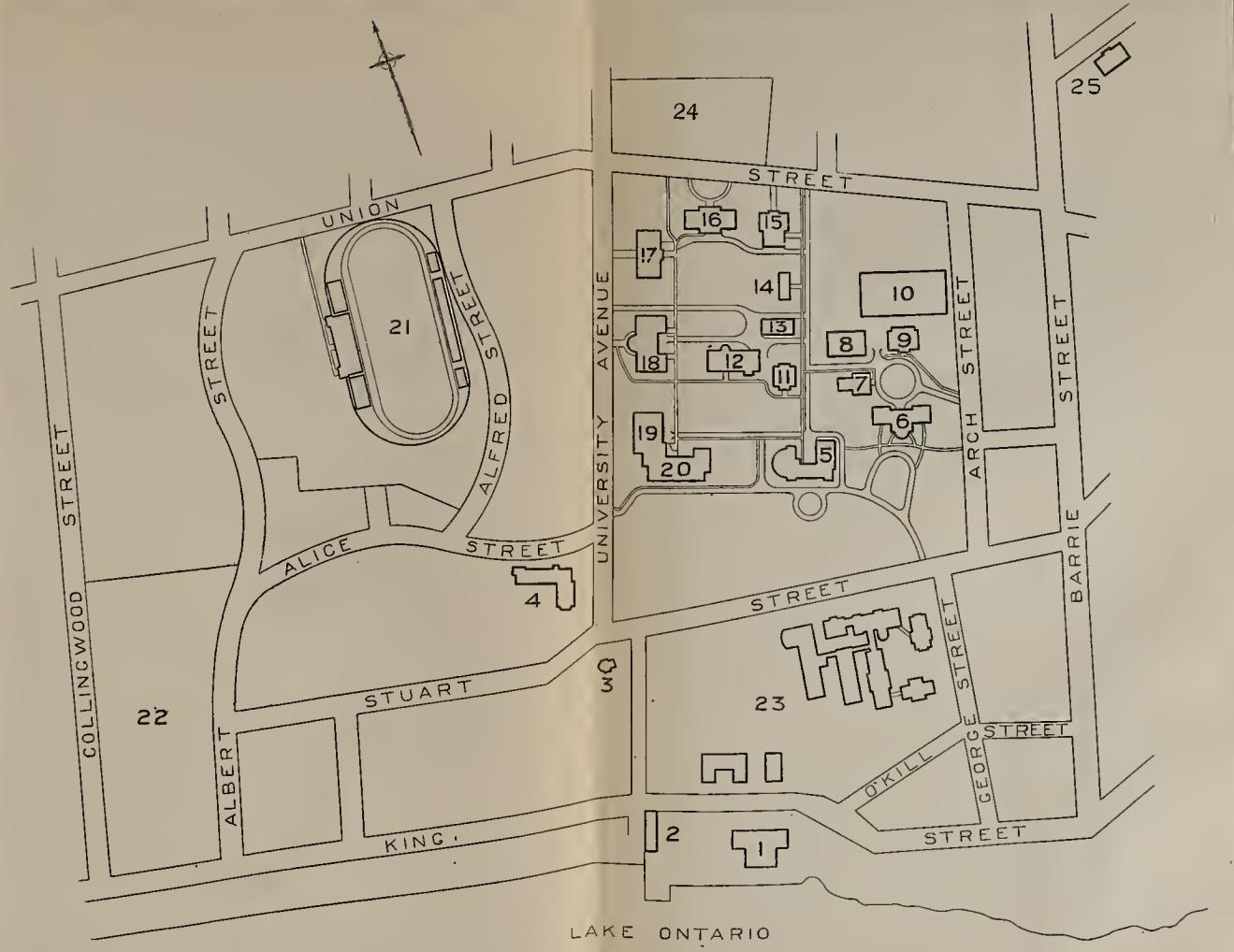
	Page
CALENDAR	4
PLAN OF THE UNIVERSITY GROUNDS	5
ACADEMIC YEAR	5
TIME TABLES	6
HISTORY OF THE UNIVERSITY	10
GOVERNMENT AND ADMINISTRATION	13
OFFICERS OF ADMINISTRATION	16
OFFICERS OF INSTRUCTION	21
OTHER OFFICERS	26
EQUIPMENT AND SPECIAL FACILITIES	27
Medical Buildings	27
Laboratories	27
Hospitals	28
Museum	29
Medical Library	29
University Library	29
Post Graduate Lectures	30
GENERAL INFORMATION	31
Admission of Students	31
Matriculation Examinations	32
Registration	32

Curriculum	33
Examinations and Graduation	34
Fees	35
Average Cost per Session	36
Microscopes	36
Physical Welfare of Students	36
The Alma Mater and <i>Æ</i> sculapian Societies	38
HIGHER DEGREES	39
Degree of Doctor of Science (D.Sc.)	39
Diploma of Public Health (D.P.H.)	39
SCHOLARSHIPS AND HONOURS	41
REQUIREMENTS FOR LICENSE	45
COURSES OF INSTRUCTION	47
DEGREES CONFERRED	67
MEDALISTS AND HOLDERS OF SCHOLARSHIPS	68
STUDENTS IN ATTENDANCE	70

CALENDAR

1929

1930



PLAN OF QUEEN'S UNIVERSITY GROUNDS

1. Central Heating Plant	10. Jock Harty Arena	18. Ontario Hall (Physics, Geology, and Mineralogy)
2. Hydraulic Laboratory	11. Carruthers Hall (Civil Engineering)	19. Grant Hall
3. Observatory	12. Fleming Hall (Electrical Engineering)	20. Kingston Hall (Arts Building)
4. Ban Righ Hall, Women's Residence	13. Mining Laboratory (Mill)	21. The George Richardson Memorial Stadium
5. Theological Hall, Biological Laboratories, Museum and Convocation Hall	14. Mechanical Laboratory	22. The Leonard Field
6. Principal's Residence	15. Nicol Hall (Mining and Metallurgy)	23. Kingston General Hospital and Richardson Laboratories
7. Anatomy and Pharmacology Building	16. Gordon Hall (Chemistry)	24. Students' Union
8. Gymnasium	17. The Douglas Library and Administration Offices	25. Old Collegiate Building
9. Medical Laboratories		

ACADEMIC YEAR

SEVENTY-SEVENTH SESSION

1929

Sept. 2, Monday—Last day for filing notice (accompanied by fee) of intention to write supplementary examinations.

Sept. 17, Tuesday—Supplementary examinations begin.

Sept. 23, Monday—Registration begins.

Sept. 25, Wednesday—Classes open at 9 a.m.

Sept. 27, Friday—Last day for registration without payment of late registration fee.

Oct. 1, Tuesday—Last day for registration.

Nov. 11, Monday—Thanksgiving Day.

Dec. 20, Friday—Christmas holidays begin at 5 p.m.

1930

Jan. 7, Tuesday—Classes re-open at 9 a.m.

Apr. 17, Thursday—Easter Recess begins at 5 p.m.

Apr. 23, Wednesday, Classes re-open at 9 a.m.

May 7, Wednesday—University Convocation for Conferring Degrees upon graduates of the Faculties of Arts and Science.

May 9, Friday—Classes close at 4 p.m.

May 12, Monday—Final examinations begin.

May 28, Wednesday—Medical Convocation for conferring degrees and announcing honors.

TIME TABLE FOR FIRST YEAR

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9		History 2 English 1				
9-10	Physics lect.	Chemistry lect.	Physics lect.	History 2 English 1	Physics lect.	History 2 English 1
10-11	Economics 2	Physics lab. B	Economics 2	Chemistry lect.	Physics lab. A	Chemistry lect.
11-12	Biology	Physics lab. B.	Biology	Physics lab. A	Biology	
1-2	Chemistry lab	Biology lab.	Biology lab.	Biology lab.	Chemistry lab	
2-3	Chemistry lab	Biology lab.	Biology lab.	Biology lab.	Chemistry lab	
3-4	Chemistry lab	Biology lab.	Biology lab.	Biology lab.	Chemistry lab	

TIME TABLE FOR SECOND YEAR

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10		Histology lect.	Anatomy		Anatomy	Embryology
10-11	Chemistry	Histology lab. A	Physics lab. B	Histology lab. B	Chemistry	Physics, lab. A
11-12	Physics	Chemistry lab B	Embryology lab. A, 10-12	Chemistry lab. A, 10-12		Embryology lab. B 10-12
1-2	Anatomy	Anatomy			Anatomy	
2-3	Anatomy	Anatomy			Anatomy	
3-4	Anatomy	Anatomy			Anatomy	
4-5	Psychology	Psychology			Anatomy	

TIME TABLE FOR THIRD YEAR

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Anatomy Lect.	Anatomy	Bacteriology	Physiology	Bacteriology	Anatomy
10-11	Physiology	Anatomy	Anatomy 10-12 B	Anatomy 10-12 A	Physiology	Anatomy
11-12	Physiological Chemistry	Anatomy	Bacteriology 10-12 A	Bacteriology 10-12 B	Physiological Chemistry	Anatomy
1-2	Physiology	Bacteriology	Anatomy	Physiology	Bacteriology	
2-3	Physiological Chemistry	1-3 B	Anatomy	1-4 A	1-3 A	
3-4	Physiological Chemistry	1-3 A	Physiological Chemistry 1-4 B	Physiological Chemistry 1-4 B	Physiological Chemistry 1-3 B	

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pathology	Pathology	Clin. Medicine and Clin. Surgery	Minor Surgery	Pathology 9-11	Pathological Chemistry
10-11	Surgery	Clin. Microscopy	Clin. Medicine			Surface Anat.
11-12	Pharmacology	Pharmacology	Clin. Medicine	Pharmacol.	Pharmacology	
1-2	Bacteriology A	Pharmacology A	App. Anatomy		Pharmacol. B 1-4	
2-3		1-4	Clin. Surgery	Bacteriology A 1-3	Clin. Microscopy A	
3-4	Bacteriology B	B	1-4	Bacteriology B 3-5	1-4	
4-5			Phys. Diag.		Phys. Diag.	

TIME TABLE FOR FIFTH YEAR

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Surgery	Eye, Ear, Nose and Throat	Eye, Ear, Nose and Throat	Surgery	App. Anatomy	Path. Chemistry
10-11	Surgery	Medicine	Surgery	Medicine	Medicine	Medicine
11-12	Pathology	Medicine	Surgery	Medicine	Surgery	Conference
1-2	Pediatrics	Clinical Pediatrics	Clinical Pediatrics	Obstetrics (Rich.Lab.Bdg.)	Obstetrics (Rich.Lab.Bdg.)	
2-3	X-Ray		Pathology	Prac. Pathology	Prac. Pathology	
3-4	Rockwood	App. Anatomy	Therapeutics	Prac. Pathology	X-Ray and Phys. Therapy, 2-4	
4-5	Gynaecology	Gynaecology	Gynaecology	G. U. Clinic 4.30		

TIME TABLE FOR SIXTH YEAR

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Hist. Medicine	Eye, Ear, Nose and Throat	Gynaecology	Eye, Ear, Nose and Throat	App. Anatomy	Therapeutics
10-11	Clinical Medicine	Clinical Surgery	Clinical Medicine	Clinical Surgery	Clinical Surgery	Clinical Medicine Conference
11-12	Clinical Medicine	Clinical Surgery	Clinical Medicine	Pediatrics	Clinical Surgery	
1-2	Obstetrics (Rich. Lab. Bldg.)	Obstetrics (Rich. Lab. Bldg.)	Jurisprudence			(Rockwood)
2-3	Pathology A	Pathology	San. Science			Psychiatry
3-4	X-Ray B, H. D.	Surgery, 2nd term X-Ray, K.G.H.	Pathology B	Clin. Medicine 2-4	Clin. Medicine	Clin. Medicine
4-5	App. Anatomy	1st term San. Science	X-Ray A, H. D.	Clin. Medicine and Gynaecology	Clin. Surgery K. P. 2-4	Gynaecology

SUPPLEMENTAL EXAMINATIONS

September, 1929

Written Examinations

	9 a.m.	2 p.m.
Tuesday, Sept. 17	Chemistry (1st) Eye, Ear, Nose and Throat (5th)	History (1st), Eng'h (1st) Chemistry (2nd) Pediatrics (5th)
Wednesday, Sept. 18	General Biology (1st) Psychology (2nd) Therapeutics (5th) Surgery (4th and 5th)	Economics (1st) Physics (2nd), Histology (3rd) Pathology (4th and 5th)
Thursday, Sept. 19	Physics (1st) Chemistry (3rd) Pharmacology (4th) Gynaecology (5th)	Embryology (2nd) Physiology (3rd) Medicine (4th and 5th)
Friday, Sept. 20	Histology (2nd) Bacteriology (3rd and 4th) Obstetrics (5th)	Anatomy (2nd and 3rd) Applied Anatomy (4th and 5th)

Clinical, oral and practical examinations are arranged by the Professors concerned.

MEDICAL EXAMINATIONS

May, 1930

Written Examinations

	9 a.m.	2 p.m.
Monday, May 12	General Biology (1st) Chemistry (2nd) Obstetrics (6th)	Anatomy (3rd) Pathology (4th) Therapeutics (5th)
Tuesday, May 13	Medicine (5th and 6th)	Physics (2nd) Surgery (4th) Obstetrics (5th)
Wednesday, May 14	Chemistry (1st) Physiology (3rd)	Bacteriology (3rd) Gynaecology (5th and 6th)
Thursday, May 15	Histology (2nd) Applied Anatomy (4th)	Embryology (2nd) Medicine (4th)
Friday, May 16	Physics (1st) Eye, Ear, Nose and Throat (5th and 6th)	
Saturday, May 17	Chemistry (3rd) Pathology (5th and 6th)	
Monday, May 19	Anatomy (2nd) Histology (3rd) Surgery (5th and 6th)	Pharmacology (4th) Jurisprudence (6th)
Tuesday, May 20	Pediatrics (5th) Psychiatry (6th)	Bacteriology (4th) San. Science (6th)
Wednesday, May 21	Applied Anatomy (5th) and 6th)	Pathological Chemistry (4th and 5th)

Clinical, oral and practical examinations are arranged by the Professors concerned.

HISTORY OF THE UNIVERSITY

Queen's University owes its origin to the desire of the Synod of the Presbyterian Church in Canada in connection with the Church of Scotland for a ministry trained within the country. As early as 1832 the Provincial Government had been petitioned "to endow without delay an institution, or professorships, for the education and training of young men for the ministry in connection with the Synod." This and other representations failing of their object, steps were taken by the Synod to found a college at Kingston on the lines of the Scottish National Universities. On October 16th, 1841, a Royal Charter was issued by Her Majesty Queen Victoria for the establishment of Queen's College, Kingston, and the first classes were opened in March, 1842, with the Rev. Dr. Liddell as Principal. Funds were provided in part by grants from the Presbyterian Church in Scotland, and from the Canadian Government, and in part by liberal subscriptions from the friends of the young and growing University. In 1867-68 the withdrawal of the Provincial grant, and the failure of the Commercial Bank, which swept away the greater part of the endowment, almost brought financial disaster. But the crisis was met by the determination of Principal Snodgrass and of other self-denying workers chief among whom was Professor Mackerras. The country was canvassed for subscriptions, and as a result of the widespread interest aroused, \$113,000 was added to the endowment.

In 1877 Principal Snodgrass was succeeded by the Rev. G. M. Grant who for a quarter of a century built with brilliant success upon the foundation laid by his predecessors. Under his guidance the University gained rapidly in size and prestige. In 1887, as the result of an effort in commemoration of the Queen's Jubilee, \$250,000 was raised, resulting in further extension, and in the establishment of new professorships.

Principal Grant died in 1902, and was succeeded in the following year by the Very Rev. D. M. Gordon. In 1916, owing to ill-health, Principal Gordon resigned his position but continued in office until the autumn of 1917, when the Rev. R. Bruce Taylor, M.A., D.D., was appointed as his successor.

In 1854 the Medical Faculty of Queen's was established. It was reorganized in 1865 as the Royal College of Physicians and Surgeons in affiliation with the University, but in 1891 the original status was resumed.

Queen's led the way in co-education. As early as 1870 special classes in English and other subjects were formed for women, but courses leading to a degree were not thrown open to them until 1878-79. In 1880 co-education was extended to the medical course, and in 1883 a separate Women's Medical College was opened and affiliated with Queen's. It was closed, however, in 1894, as similar facilities were offered in Toronto and elsewhere.

In 1907 the Ontario Government established at Queen's a Faculty of Education for the purpose of providing professional training for teachers in the secondary schools of the Province. In 1920, however, the work of the Faculty was discontinued because of the decision of the Government to extend the scope of the Normal Schools and to create in Toronto the Ontario College for Teachers.

The School of Mining was founded in 1893 under an Ontario charter and for several sessions all its departments were housed in Carruthers Science Hall, erected in 1889. The Provincial Legislature in 1900 provided Ontario Hall for the Departments of Physics, Geology and Mineralogy, and Fleming Hall for the Departments of Civil, Mechanical, and Electrical Engineering. More recently the Provincial Government erected Gordon Hall, which is entirely used by the Department of Chemistry, and, through the generosity of the late Professor Nicol and other graduates, Nicol Hall was built to provide class rooms and laboratories for the Department of Mining and Metallurgy. The School of Mining was amalgamated with the University in 1916 and now constitutes its Faculty of Applied Science.

The endowment of the University is at present about \$2,000,000, of which about \$900,000 was obtained in 1918-19. To this sum the late Chancellor Dr. Douglas contributed \$500,000 and the Carnegie Corporation \$250,000. The University is now engaged in a campaign to raise \$2,500,000 for endowment and other purposes. In recent years the Province of Ontario has steadily increased its grants, and the annual income of the University, derived from all sources, is now over \$500,000.

There is now on the University Campus a stately group of buildings, comprising the Old Arts Building (now the Theological Building), Carruthers Hall (Civil Engineering); the New Arts Building, the gift of the city of Kingston; Grant Hall, erected by the students to the memory of the late Principal Grant; Ontario Hall (Physics, Mineralogy, and Geology); Fleming Hall (Mechanical and Electrical Engineering); Gordon Hall (Chemistry); Nicol Hall (Metallurgy); the Medical Building; the Medical Laboratories Building; the Gymnasium; the Observatory; and the Douglas Memorial Library.

Queen's University, though founded by a Church, was dedicated to the nation. As its constituency expanded, its constitution was gradually broadened until finally in 1912, as a result of an amicable arrangement between the Presbyterian Church and the trustees of the University, an act was passed by the Dominion Parliament removing the last vestige of denominational control. The registration of students has grown from 665 in 1900 to over 3500 in the present session, and Queen's has become nation-wide in its work and influence.

GOVERNMENT AND ADMINISTRATION

The administration of the University is vested in the Board of Trustees, the University Council, the Senate, and the Faculty Boards.

THE BOARD OF TRUSTEES

The Board of Trustees consists of the Chancellor, the Principal, and the Rector; one representative from each affiliated college; representatives as provided for by the Statutes from the University Council, the Benefactors, the Graduates; and members elected by the Board of Trustees.

The functions of the Board of Trustees are to manage the finances, to possess and care for the property, to procure legislation, to appoint instructors and other officers, and in general to attend to such external matters as do not relate directly to instruction.

THE UNIVERSITY COUNCIL

The University Council consists of the Chancellor, the Trustees, the members of the Senate, and an equal number of members elected by the Graduates from their own numbers.

The annual meeting of the Council is held on the Tuesday immediately preceding Convocation.

The functions of the Council are:

(1) To elect the Chancellor, except when two or more candidates are nominated, in which case the election is by registered graduates.

(2) To elect six trustees, two of whom shall retire annually.

(3) To make by-laws governing the election of the Rector by the registered students, of seven trustees by the benefactors, of six trustees by the University Council, and of six trustees by the graduates.

(4) To discuss all questions relating to the University and its welfare.

(5) To make representation of its views to the Senate or the Board of Trustees.

(6) To decide on proposals for affiliation.

(7) To arrange all matters pertaining to (a) its own meetings and business, (b) the meetings and proceedings of Convocation, (c) the installation of the Chancellor, (d) the fees for memberships, registration and voting.

THE SENATE

The Senate consists of:

- The Principal.
- The Principal of Queen's Theological College.
- The Dean of the Faculty of Arts.
- The Dean of the Faculty of Medicine.
- The Dean of the Faculty of Applied Science.
- Three Professors elected by the Faculty of Arts.
- Three Professors elected by the Faculty of Medicine.
- Three Professors elected by the Faculty of Applied Science.
- Two Professors elected by the Faculty of Queen's Theological College.

The functions of the Senate are:

- (1) To determine all matters of an academic character which concern the University as a whole.
- (2) To consider and determine all courses of study leading to a degree, including conditions of Matriculation, on recommendation of the respective Faculty Boards; but the Senate shall not embody any changes without having previously presented these to the Faculty.
- (3) To recommend to the Board of Trustees the establishment of any additional Faculty, Department, Chair or Course of Instruction in the University.
- (4) To be the medium of communication between the Alma Mater Society and the Governing Bodies.
- (5) To determine all regulations regarding the social functions of the students within the University, and regarding the University Library and University Reading Rooms.
- (6) To publish the University Calendars.
- (7) To conduct examinations.
- (8) To grant Degrees.
- (9) To award University Scholarships, Medals, and Prizes.

(10) To enforce the Statutes, Rules, and Ordinances of the University.

(11) To make such recommendations to the Governing Boards as may be deemed expedient for promoting the interests of the University.

THE FACULTY BOARDS

The Dean, Professors, Associate Professors, Assistant Professors, and Lecturers of each Faculty have power to meet as separate boards, and to administer the affairs of each Faculty under such regulations as the Board of Trustees may prescribe. The Principal is *ex-officio* president and a member of each of the Faculty Boards.

The functions of the Faculty Boards are:

(1) To recommend to the Senate courses of study leading to a degree, and the conditions of admission.

(2) To decide upon applications for admission or for change of course, subject to the regulations of the Senate.

(3) To submit to the Senate names for both ordinary and honorary degrees.

(4) To arrange the time-table for classes and to edit the Faculty Calendar, subject to the approval of the Senate.

(5) To control registration, and determine the amount of fees and manner of payment, subject to the regulations of the Senate.

(6) To deal with class failures.

(7) To exercise academic supervision over students.

(8) To make such recommendations to the Senate as may be deemed expedient for promoting the efficiency of the University.

(9) To award Faculty Scholarships, Medals, and Prizes.

(10) To appoint such sessional assistants, fellows, tutors, and demonstrators as shall be needed to give instruction in the subjects taught by the Faculty.

(11) To pass such regulations and by-laws as may be necessary for the exercise of the functions of the Faculty.

OFFICERS OF ADMINISTRATION

CHANCELLOR

RIGHT HON. SIR ROBERT LAIRD BORDEN, P.C., G.C.M.G., K.C.

PRINCIPAL AND VICE-CHANCELLOR

R. BRUCE TAYLOR, M.A., D.D., LL.D.

RECTOR

OSCAR D. SKELTON, M.A., Ph.D.

REGISTRAR AND TREASURER

W. E. MCNEILL, M.A., Ph.D.

DEPUTY REGISTRAR

ALICE KING

LIBRARIAN

E. COCKBURN KYTE

THE BOARD OF TRUSTEES

Chairman

W. F. NICKLE, B.A., K.C.

Secretary

W. E. MCNEILL, M.A., Ph.D

Ex-officio Members

RIGHT HON. SIR ROBERT LAIRD BORDEN, P.C., G.C.M.G., K.C... Chancellor
R. BRUCE TAYLOR, M.A., D.D., LL.D. Principal
O. D. SKELTON, M.A., Ph.D. Rector

Elective Members

Retire 1929

REV. G. A. BROWN ⁵	Kingston
CAPT. JOHN DONNELLY, M.E. ⁴	Kingston
T. H. FARRELL, M.D. ¹	Utica, N.Y.
D. I. MCLEOD, B.A. ⁶	Toronto
W. F. NICKLE, B.A., K.C. ¹	Kingston
SIR GEORGE PERLEY ⁶	Ottawa

Retire 1930

R. CRAWFORD, B.A. ⁴	Kingston
W. L. GRANT, M.A., LL.D. ²	Toronto
SENATOR ANDREW HAYDON, M.A., LL.B. ⁶	Ottawa
D. H. LAIRD, M.A., K.C. ¹	Winnipeg, Man.
SENATOR H. H. HORSEY, B.A. ¹	Ottawa
JUDGE H. A. LAVELL, B.A. ³	Kingston
J. M. MACDONNELL, M.A. ⁷	Montreal
E. R. PEACOCK, M.A. ⁶	London, Eng.
R. O. SWEZEY, B.Sc. ³	Montreal
A. B. TURNER, B.A. ⁶	Hamilton

Retire 1931

J. MACKINTOSH BELL, M.A., Ph.D., LL.D. ⁷	Almonte
REV. D. R. DRUMMOND, M.A., D.D. ⁶	Hamilton
J. M. FARRELL, B.A., K.C. ³	Kingston
SENATOR A. C. HARDY, ESQ. ⁶	Brockville
G. F. HENDERSON, B.A., K.C. ²	Ottawa
ALEX. LONGWELL, B.A., B.Sc. ¹	Toronto
A. J. MEIKLEJOHN, B.A. ⁶	Kingston
D. M. MCINTYRE, LL.D., K.C. ¹	Kingston
F. D. REID, B.Sc. ⁴	Cobalt
CHARLOTTE E. WHITTON, M.A. ³	Ottawa

Retire 1932

JACKSON BOOTH, ESQ ²	Ottawa
J. M. CAMPBELL, ESQ. ⁷	Kingston
VERY REV. W. T. HERRIDGE, D.D. ⁶	Ottawa
HON. MR. JUSTICE W. A. LOGIE, M.A., LL.B. ⁶	Toronto
JAMES A. RICHARDSON, B.A. ⁶	Winnipeg, Man.
A. SHORTT, M.A., LL.D., C.M.G. ³	Ottawa
O. D. SKELTON, M.A., Ph.D., F.R.S.C. ³	Ottawa

Retire 1933

H. A. CALVIN, ESQ. ²	Toronto
J. G. DWYER, M.A., M.D., C.M., LL.D. ⁶	New York City

¹Elected by the University Council for three years.

²Elected by the Benefactors for four years.

³Elected by the Graduates for three years.

⁴Elected by the Board of Trustees to represent the Faculty of Applied Science for three years.

⁵Elected by the Faculty of Queen's Theological College for one year.

⁶Elected by the Board of Trustees for four years.

⁷Elected by Benefactors to represent the Faculty of Applied Science for three years.

THE UNIVERSITY COUNCIL

Registrar

J. M. FARRELL, B.A., K.C.

Ex-officio Members

THE CHANCELLOR

THE PRINCIPAL

THE MEMBERS OF THE BOARD OF TRUSTEES

THE MEMBERS OF THE SENATE

Elective Members

Retire 1930

E. H. BIRKETT, B.Sc.	Toronto
D. G. BROWNE, B.Sc.	New York
E. A. COLLINS, B.Sc.	Copper Cliff
REV. EBER CRUMMY, B.Sc., D.D.	Carberry, Man.
A. B. CUNNINGHAM, B.A.	Kingston
V. K. GREER, M.A.	Toronto
MISS MARION REDDEN, B.A.	Kingston
*ALEX. LONGWELL, B.A., B.Sc.	Toronto

Retire 1931

A. E. DAY, M.A., K.C.	Kingston
REV. J. A. DONNELL, M.A.	Saskatoon, Sask.
JAS. DWYER, M.D.	New York
W. C. DOWSLEY, M.A.	Brockville
MRS. H. A. LAVELL, B.A.	Kingston
MRS. ETTA NEWLANDS, M.A.	Kingston
F. J. POPE, M.A., Ph.D.	Yonkers, N.Y.

Retire 1932

H. A. CALVIN, ESQ.	Toronto
E. T. CORKILL, B.Sc., M.E.	Toronto
C. W. DRURY, B.Sc.	Toronto
JUDGE A. G. FARRELL, B.A.	Regina, Sask.
C. F. HAMILTON, M.A.	Ottawa
S. J. KEYES, B.A., D.Paed.	Ottawa
REV. J. W. MCINTOSH, M.A.	Richmond Hill
W. A. NEWMAN, B.Sc.	Montreal

Retire 1933

R. W. ANGLIN, M.A.	Toronto
D. D. CALVIN, B.A.	Toronto
*T. H. FARRELL, M.A., M.D.	Utica, N.Y.
SENATOR A. HAYDON, M.A., LL.B.	Ottawa
*SENATOR H. H. HORSEY, B.A.	Ottawa
F. KING, M.A., K.C.	Kingston
D. H. LAIRD, M.A.	Winnipeg
*W. F. NICKLE, B.A., K.C.	Kingston
MRS. G. SILVERTHORNE, B.A., M.D.	India

Retire 1934

C. LAIDLAW, B.A., M.D.	Ottawa
R. W. BROCK, M.A.	Vancouver
JUDGE E. B. FRALECK, B.A.	Belleville
W. H. RANKIN, M.D.	Brooklyn, N.Y.
T. A. MCGINNIS, B.Sc.	Kingston
LORNE PIERCE, B.A., Ph.D.	Toronto
MISS A. E. MARTY, M.A., LL.D.	Toronto

Retire 1935

DENNIS JORDAN, B.A., M.D.	Toronto
REV. N. M. LECKIE, M.A.	St. Mary's
MRS. J. MACGILLIVRAY, M.A.	Kingston
*D. M. MCINTYRE, LL.D., K.C.	Kingston
F. ETHERINGTON, M.D.	Kingston
A. A. MACKAY, B.Sc.	Montreal
F. J. HOUSTON, M.D.	Hamilton
G. C. MONTURE, B.Sc.	Ottawa

*Elected by the Council as their representatives on the Board of Trustees.

THE SENATE

Ex-officio Members

R. BRUCE TAYLOR, M.A., D.D., LL.D.	Principal
JOHN MATHESON, M.A.	Dean of the Faculty of Arts
A. L. CLARK, B.Sc., Ph.D.	Dean of the Faculty of Applied Science
J. C. CONNELL, M.A., M.D.	Dean of the Faculty of Medicine
REV. H. A. KENT, M.A., D.D.	Principal of Queen's Theological College

Elective Members

The Faculty of Arts

R. O. JOLLIFFE, M.A., Ph.D.	Retires 1930
W. A. MACKINTOSH, M.A., Ph.D.	Retires 1931
E. L. BRUCE, M.A., Ph.D.	Retires 1932

The Faculty of Applied Science

W. P. WILGAR, B.Sc.	Retires 1930
D. S. ELLIS, M.A., B.Sc.	Retires 1931
L. M. ARKLEY, M.Sc.	Retires 1932

The Faculty of Medicine

E. C. D. MACCALLUM	Retires 1930
G. SPENCER MELVIN	Retires 1930
G. B. REED	Retires 1930

The Faculty of Queen's Theological College

REV. S. W. DYDE, D.Sc., D.D., LL.D.	Retires 1930
REV. J. R. WATTS, B.A., D.D.	Retires 1931

EMERITUS PROFESSORS

W. G. ANGLIN, M.D., C.M., M.R.C.S., Eng.

Emeritus Professor of Clinical Surgery

52 Earl Street

A. P. KNIGHT, M.A., M.D. (Toronto), F.R.S.C.

Emeritus Professor of Physiology

Queen's Crescent

OFFICERS OF INSTRUCTION

L. J. AUSTIN, M.Ch. (Cantab.), F.R.C.S., Eng.
Professor of Surgery

84 Barrie Street

A. L. CLARK, B.Sc. (W.P.I.), Ph.D. (Clark), F.R.S.C.
*Professor of Physics and Dean of the Faculty of
Applied Science*

200 Albert Street

J. C. CONNELL, M.A., M.D.
*Professor of Ophthalmology, Otology, Laryngology and
Rhinology, and Dean of the Faculty*

265 King Street

W. T. CONNELL, M.D., M.R.C.S., Eng., L.R.C.P., London
Professor of Medicine and Clinical Medicine

11 Arch Street

G. S. MELVIN, M.D. (Aberdeen)
Professor of Physiology

127 King Street West

JAMES MILLER, B.Sc., M.D. (Edinburgh), D.Sc. (Birmingham),
F.R.C.P.Ed., F.R.S.C.
Professor of Pathology

91 Albert Street

G. W. MYLKS, M.D., F.A.C.S.
Professor of Gynaecology

122 Wellington Street

G. B. REED, B.Sc., Ph.D. (Harvard)
Professor of Bacteriology

218 Albert Street

EDWARD RYAN, B.A., M.D., C.M.
Professor of Psychiatry

Ontario Hospital

THOS. GIBSON, M.A., M.B. (Edinburgh)
Professor of Pharmacology and Therapeutics

82 Beverly Street

R. R. MACGREGOR, M.D., C.M.

Professor of Pediatrics

148 Earl Street

D. C. MATHESON, M.B.

Professor of Anatomy

32 Union Street West

R. J. GARDINER, M.D., C.M.

Professor of Medical Jurisprudence, and

Assistant Professor of Surgery

90 Johnson Street

GEORGE HUMPHREY, M.A. (Oxford), Ph.D. (Harvard)

Professor of Philosophy

7 Wellington Street.

W. A. MACKINTOSH, M.A. (Queen's), Ph.D. (Harvard)

*The Sir John A. Macdonald Professor of Political
and Economic Science*

310 University Avenue

J. K. ROBERTSON, M.A. (Toronto), F.R.S.C.

Professor of Physics

105 Albert Street

I. G. BOGART, M.D., C.M.

Associate Professor of Surgery

102 Wellington Street

FREDERICK ETHERINGTON, M.D.

Associate Professor of Surgery

118 University Avenue

WM. GIBSON, M.D.

Associate Professor of Medicine

85 William Street

E. C. D. MACCALLUM, M.D., C.M. (McGill)

Associate Professor of Medicine

302 Barrie Street

REGINALD E. TROTTER, B.A. (Yale), M.A., Ph.D. (Harv.)

Associate Professor of History

85 Gore Street

R. O. EARL, B.A. (Queen's), M.Sc., Ph.D. (Chicago)

Associate Professor of Biology

313 King Street West

J. F. LOGAN, M.A., Ph.D.,
Associate Professor of Chemistry 69 Queen's Crescent

H. ALEXANDER, M.A. (Liverpool)
Associate Professor of English 82 Queen's Crescent

F. A. CAYS, M.D., C.M.
Assistant Professor of Eye, Ear, Nose and Throat 124 Wellington Street

WILHELMINA GORDON, M.A. (Queen's)
Assistant Professor of English 122 University Avenue

W. D. HAY, M.A., M.D., C.M.
Assistant Professor in Pathology 124 Beverly Street

S. J. KEYES, M.D., C.M.
Assistant Professor of Surgery and Lecturer in Anesthetics 255 Queen Street

J. F. SPARKS, B.A., M.D., C.M.
Assistant Professor of Surgery and Applied Anatomy 100 Wellington Street

J. P. QUIGLEY, M.A., M.D., M.R.C.S., Eng., L.R.C.P., London
Assistant Professor of Medicine 245 Johnson Street

W. V. BALL, B.A.Sc. (Toronto)
Lecturer in Physics 120 College Street

C. W. BENNETT, M.D., C.M.
*Lecturer in Preventive Medicine and Clinical
Assistant in Medicine* 197 Queen Street

R. L. DORRANCE, M.A. (Toronto)
Lecturer in Chemistry 233 Johnson Street

G. H. ETTINGER, B.A., M.D.
Lecturer in Physiology and Embryology 67 Queen's Crescent

BRUCE H. HOPKINS, M.B. (Toronto)
Lecturer in Medicine

91 King Street East

W. A. JONES, M.D. (Western)
Lecturer in X-Ray and Physiotherapy

251 University Ave.

A. McCUSAULAND, M.D., C.M.
Lecturer in Psychology

Ontario Hospital

J. H. ORR, M.D., C.M.
Lecturer in Bacteriology

529 Johnson Street

J. G. KEBER LINDSAY
Lecturer in Embryology

343 Albert Street

R. W. CUMBERLAND, M.A.
Lecturer in English

587 Johnson Street

T J. RIGNEY, B.A., K.C., City Solicitor
Lecturer in Medical Jurisprudence

89 Clarence Street

G. H. BIRD, M.B. (Toronto)
Clinical Assistant in Medicine

Gananoque

HENDRY C. CONNELL, B.A., M.D., C.M.
Clinical Assistant in Eye, Ear, Nose and Throat

265 King Street

H. P. FOLGER, B.A., M.D., C.M.
Clinical Assistant in Eye, Ear, Nose and Throat

238 Bagot Street

P. M. MACDONNELL, M.A., M.D., C.M.
Clinical Assistant in Medicine and Historian

238 Bagot Street

C. H. ELLIOTT, M.D., C.M.
Clinical Assistant in Obstetrics

362 Brock Street

P. H. HUYCK, M.D.
Clinical Assistant in Obstetrics

111 Wellington Street

M. J. MORISON, M.D., C.M.
Clinical Assistant in Obstetrics and Gynaecology
327 Barrie Street

F. J. O'CONNOR, M.D., C.M.
Clinical Assistant in Obstetrics and Fellow in Anatomy
193 Earl Street

J. REGINALD THIRD, B.A., M.D., C.M.
Clinical Assistant in Medicine
Wellington Street

G. C. KIDD, M.B. (Toronto)
Clinical Assistant in Psychiatry
Ontario Hospital

C. H. McCUAIG, M.D., C.M.
Clinical Assistant in Psychiatry
Ontario Hospital

H. S. ANGROVE, M.D., C.M.
Fellow in Anatomy and Medical Adviser
180 Bagot Street

J. M. BAXTER, B.A.
Assistant in Organic Chemistry
407 Earl Street.

J. S. DELAHAYE, M.D., C.M.
*Demonstrator in Anatomy and Clinical Assistant
in Medicine*
230 Johnson Street

P. A. MCLEOD, B.A., M.D., C.M.
*Clinical Assistant in Obstetrics, Gynaecology and
Surgery*
240 King Street E.

N. E. GIBBONS, B.A.
Assistant in Bacteriology
339 Frontenac Street.

W. H. ZINN, B.A.
Assistant in Physics
532 Johnson Street

MISS JESSIE GORDON
Assistant Secretary
240 Alfred Street

OTHER OFFICERS

Librarian

E. COCKBURN KYTE

Curators of the Library

PRINCIPAL TAYLOR, PRINCIPAL KENT, DEAN CONNELL, DEAN MATHESON,
DEAN CLARKE, W. E. MCNEILL, PROFESSORS TROTTER,
ALEXANDER, MACPHAIL, JAMES MILLER, AND MICKLEM

Curators of the Museums

THE PROFESSORS OF BIOLOGY, GEOLOGY AND PATHOLOGY

The Observatory Board

THE PRINCIPAL AND THE PROFESSOR OF ASTRONOMY

Director of Summer School

PROFESSOR MACCLEMENT

Director of Extension Work

A. H. CARR, B.A., C.A.

Superintendent of Buildings

JAMES BEWS

Secretary-Treasurer, Athletic Board of Control

J. S. McDONNELL, B.A.

EQUIPMENT AND SPECIAL FACILITIES

THE MEDICAL BUILDINGS

The old Medical Building, erected in 1858, was destroyed by fire in August, 1924. It has now been replaced by a fire-proof structure, which houses the departments of Anatomy and Pharmacology, and forms the general headquarters for the Medical Faculty.

In the Medical Laboratories building are conducted the courses in Bacteriology, Embryology, Histology, and Physiology.

The departments of Pathology and Public Health are housed in the new Richardson Laboratory, attached to the Clinic building, General Hospital.

THE LABORATORIES

THE BIOLOGICAL LABORATORIES

The classes in the Department of Biology are conducted in new quarters in the old Arts building. The laboratories are equipped with the supplies and equipment necessary for the study of plant and animal life and are provided with a separate locker for each student.

The laboratories in Bacteriology are situated on the third floor of the Medical Laboratories building; that for Experimental Physiology occupies the west side of the second floor of the building and has all appliances necessary for 50 students working at one time. The work in Histology and Embryology is conducted on the east side of this floor, where there is accommodation for 120 students.

THE CHEMICAL LABORATORIES

The Chemical Laboratories are situated in Gordon Hall, which was opened for occupancy in the autumn of 1911. This building is devoted entirely to work in Chemistry, and is thoroughly modern in every detail. There is a large lecture amphitheatre situated on the third floor with a seating capacity of 216, and two small lecture rooms on the first floor. The laboratories for General, Organic and Physiological Chemistry are situated on the third floor. Each member of the permanent staff has his own office and laboratory where he may carry on his private investigations. A centrally located set of supply and store rooms is provided with electric elevator connection. A well-lighted library, equipped for both undergraduate and post-graduate study, is situated on the second floor.

A double system of ventilation is provided, one for noxious fumes and the other for general ventilation. A special equipment, automatically operated, furnishes compressed air as well as a low pressure system. Both high and low pressure steam is available in the majority of the laboratories.

THE PHYSICAL LABORATORIES

The Physical Laboratories are situated in the southern half of Ontario Hall. There is a large, well equipped lecture room with seating capacity of 125 on the second floor, and a small lecture and class room on the first floor. Two of the large rooms on the first floor are devoted to the more elementary laboratory work of the first and second years and a commodious room on the second floor is arranged as an electrical laboratory for advanced work. Various smaller rooms are fitted for special purposes. One of them is for work in Physical Optics —Spectrometry, Polarimetry, and Spectroscopy. Another is well equipped as a dark room for Photography. A third is arranged for X-ray and photometric work. Other rooms are used as private laboratories, offices, apparatus rooms, and store rooms. The library and reading room is a large well lighted room on the second floor.

THE HOSPITALS

The General Hospital affords the main source of clinical teaching, its staff being nominated by the Medical Faculty. The Douglas Clinical Building completed in the autumn of 1925, houses the Public Wards, Operating Theatres, X-ray and Electro-therapeutic Departments, and the various out-patient departments. The Nickle Wing has been remodelled for use of the Obstetric Department and is now occupied.

The Isolation Hospital, erected on the General Hospital grounds, and under its administration, will accommodate 64 patients. This Hospital affords full opportunity for clinical training in infectious diseases.

The Hotel Dieu Hospital throws open its wards for clinical teaching. This Hospital has 200 beds and is thoroughly equipped.

The Ontario Hospital for the Insane is open for the instruction of students. The staff of this Hospital are responsible for the teaching in Mental Diseases. Its large population affords in addition much material for medical, surgical, gynaecological and pathological teaching.

The Mowat Sanatorium for Tuberculosis having been sold to the Ontario Government, is to be incorporated with the Ontario Hospital for the Insane. The Doran Building of the General Hospital has been opened as a unit for the care of tuberculosis and will afford ample opportunity to the students for clinical teaching in pulmonary diseases, and for the study, prevention and treatment of tuberculosis.

Through the courtesy of the Federal Department of Justice, and the co-operation of the Prison Surgeon, weekly clinics are permitted at the Penitentiary Hospital in Medicine and Surgery.

PATHOLOGICAL MUSEUM

The Pathological Museum contains numerous valuable specimens collected both from hospital and private practice. A catalogue has been compiled and is accessible for use in study of the specimens. Contributions of morbid specimens will be gladly received from practitioners.

The Museum has recently been considerably enlarged and rearranged in accordance with the most modern methods. It now contains nearly 2,000 specimens, the majority of which are mounted by modern methods for preserving colour.

The Museum is housed in the Richardson Laboratory at the new Hospital Building.

LIBRARY

The University Library was removed from the old Arts Building to the new Douglas Library Building during the summer of 1924. The new building provides one large reading room, three smaller ones, a number of conference rooms, exhibition room and offices for the library staff.

In the main reading room will be found a collection of some 5,000 volumes of general reference works on open shelves. The main collection is shelved on five tiers of book-stacks, occupying the centre of the building and under the main reading room. The general library now comprises in excess of 150,000 volumes as well as many original manuscripts and prints.

The system of classification used is that of the Library of Congress.

Seven hundred and fifty journals and other serials are being currently received.

In addition to the general library, there are departmental libraries for physics; chemistry; mining and metallurgy; geology and mineralogy; civil, mechanical, and electrical engineering; clinical medicine; ophthalmology; pathology.

The Lorne Pierce Collection of Canadian Literature is very rich in first editions, original manuscripts and rare Canadiana.

The Shortt-Haydon Collection of portraits and views relating to Canada is the second finest collection of its kind in existence.

The library of the Medical Faculty is now located in the Douglas Library Building, and has its own reading room. It is administered by the staff of the general library.

The John Franklin Kidd Endowment provides for an annual fund for the purchase of books in the department of Surgery. These volumes are marked by a special book plate and form a valuable section of the Library gradually increasing in importance.

POST-GRADUATE LECTURES, 1928-29

Oct. 26—Dr. A. J. Mackenzie, Toronto: "Clinical Aspects of Enlargement of the Liver."

Nov. 2—Dr. J. W. Crane, London: "Diet and Disease."

Nov. 23—Dr. A. G. Nicholls, Montreal: "The Anatomical Concept of Disease."

Dec. 7—Dr. R. D. Rudolf, Toronto: "The Handling of Cases of High Blood Pressure."

Jan. 18—Dr. F. A. Cleland, Toronto: "Radium Treatment in Gynaecological Conditions."

Jan. 25—Dr. R. R. Graham, Toronto: "Differential Diagnosis of Upper Gastro Intestinal Lesions."

Feb. 8—Dr. W. Magner, Toronto: "Jaundice."

Feb. 22—Dr. C. Laidlaw, Ottawa: "Faulty Clinical Methods."

Mar. 8—Dr. G. Hale, London: "A Practical Viewpoint of Nephritis."

Mar. 22—Dr. E. M. Eberts, Montreal: "Carcinoma and Ulcer of the Stomach."

Apr. 5—Dr. J. B. Collip, Montreal: "A Pressor Substance in the Extract from the Prostate Gland."

Apr. 19—Dr. W. H. Dickson, Toronto: "Radiological Diagnosis of Diseases of the Colon."

GENERAL INFORMATION

ADMISSION OF STUDENTS

The number of students admitted to the classes of the first year is limited and prospective matriculants should make formal application for admission on forms obtainable from the Secretary of the Faculty. These applications should be in the hands of the Secretary not later than September 1st. Applicants will be notified of the decision of the Committee on Admissions as soon as possible after that date. Only under special circumstances will applications be considered *after* September 1st.

Men alone are admitted.

Matriculation requirements must be completed before admission.

Candidates for admission must present certificates of having passed in the following subjects of Pass and Honour Matriculation:

PASS MATRICULATION

Latin (Authors and Composition).

English (Literature and Composition).

History (British and Ancient).

Mathematics (Algebra and Geometry).

and any two of the following:—

Greek (Authors and Composition).

German (Authors and Composition).

French (Authors and Composition).

{ Spanish (Authors and Composition),

| or,

{ Italian (Authors and Composition).

{ Experimental Science (Physics and Chemistry),

| or,

{ Agriculture (Part I and Part II).

HONOUR MATRICULATION

English (Literature and Composition).

Mathematics (Algebra, Geometry, Trigonometry).

and one of

Latin (Authors and Composition).

Greek (Authors and Composition).

French (Authors and Composition).

German (Authors and Composition).

Physics or Chemistry or Biology may be substituted for Trigonometry.

The pass standard is fifty per cent. in each paper.

A candidate with Arts Matriculation may satisfy the Honour Matriculation required by taking the first year in the Faculty of Arts.

Candidates from Provinces of Canada other than Ontario must present certificates of a standard equivalent to that required for students from the Province of Ontario. They must have passed the matriculation examinations prescribed by the Medical Council of any Province and have registered with the Medical Board as a medical student in that Province.

Prospective matriculants must submit with their applications for admission the certificates on which they claim standing.

Teachers' examinations are accepted *pro tanto* in lieu of the Matriculation Examinations in so far as the subjects correspond.

Certificates of Matriculation in any University may be accepted *pro tanto* at the discretion of the Faculty.

A candidate, who in the Faculty of Arts has obtained credit for Physics 1, Biology 1 and 2, Chemistry 1 and 2, will be admitted to the second year of Medicine. The course in Medicine may thus be completed in five years instead of six.

MATRICULATION EXAMINATIONS

The Matriculation examinations are conducted for the Universities of Ontario by the University Matriculation Board. They are held in June of each year at the Universities and at each High School and Collegiate Institute in Ontario and at such other centres as may be approved by the Board. If application is made to the University Senate, the examination may be held at suitable centres outside of Ontario.

The Secretary of the University Matriculation Board, R. A. Croskery, M.A., Parliament Buildings, Toronto, will furnish on request, the official circular which contains full information concerning dates, fees, standards, curriculum, and examination centres. The University also publishes an announcement containing all particulars regarding Matriculation, which may be obtained from the Registrar of the University.

REGISTRATION

Students, not registering *in person* on or before September 27th, must pay the fee for late registration and no student will be allowed to register in the Faculty of Medicine after the 1st of October.

At the time of registration, students who claim exemptions must present to the Secretary certificates giving an exact statement of the exemptions to which they are entitled.

A student who has attended the course of instruction in any year will be required to complete the examinations of that year before he will be permitted to register in the succeeding year.

No student may repeat more than one year during his course without the permission of the Faculty.

CURRICULUM

Candidates for the degrees of M.D., C.M., must complete a period of six years' study, comprising six sessions of eight months each.

Regular attendance on full courses of instruction is required in the following subjects of study:—

1st Year:—General Biology, Chemistry, Physics, History or Economics or English.

2nd Year:—Anatomy, Organic Chemistry, Histology, Embryology, Physics, Psychology.

3rd Year:—Anatomy, Physiology, Histology, Physiological Chemistry, Bacteriology.

4th Year:—Pathology, Pharmacology, Bacteriology, Applied Anatomy, Surgery, Medicine, Clinical Microscopy, Pathological Chemistry.

5th Year:—Surgery, Medicine (including Therapeutics), Obstetrics, Gynaecology, Pathology, Pathological Chemistry, Eye, Ear, Nose and Throat, Applied Anatomy, Pediatrics.

6th Year:—Surgery, Medicine, Obstetrics, Gynaecology, Serology and Pathology, Preventive Medicine, Psychiatry, Jurisprudence, Applied Anatomy, History of Medicine, Eye, Ear, Nose and Throat, Pediatrics.

Certificates of attendance on lectures may be accepted from incorporated medical schools in the British Dominions and others recognized by British Universities and licensing bodies. Other certificates of attendance on lectures and examinations may be accepted at the discretion of the Faculty.

The combined B.A., M.D., Course has been discontinued, but students who have already started will be allowed to finish.

EXAMINATIONS AND GRADUATION

Examinations are held in all subjects at the end of the fall term.

Students must attend a minimum of 80 per cent. of the lectures and laboratory exercises in the subjects for which they are registered to be admitted to the final examinations in those subjects.

A minimum of sixty per cent. in each subject is required for a pass.

The Faculty may at any time either during the term or after the close of the term, require any student to withdraw from the Faculty of Medicine whose conduct, attendance, work or progress is deemed unsatisfactory.

Candidates who pass in a majority of the subjects required at the annual examinations at the end of the First, Second and Third years and in all but three subjects at the end of the Fourth, Fifth and Sixth years, may present themselves at the supplemental examinations next ensuing in the subjects in which they fail. On passing such examinations they will be allowed their year.

A candidate will not be admitted to an examination unless he has paid all University fees.

EXAMINATIONS

Examinations are required at the end of every session as follows:

At the end of the first session:—

General Biology, Chemistry, Physics, History or Economics or English.

At the end of the second session:—

Anatomy, Organic Chemistry, Physics, Histology, Embryology, Psychology.

At the end of the third session:—

Anatomy, Physiology, Histology, Physiological Chemistry, Bacteriology.

At the end of the fourth session:—

Pathology, Pharmacology (including Materia Medica), Applied Anatomy, Surgery, Medicine, Bacteriology, Pathological Chemistry.

At the end of the fifth session:—

Surgery, Medicine, Therapeutics, Obstetrics, Gynaecology, Pathology, Pathological Chemistry, Pediatrics, Applied Anatomy, Eye, Ear, Nose and Throat.

At the end of the sixth session:—

Surgery, Medicine, Gynaecology, Obstetrics, Serology and Pathology, Preventive Medicine, Jurisprudence, Psychiatry, Applied Anatomy, Eye, Ear, Nose and Throat, Pediatrics.

EQUIVALENT EXAMINATIONS

The following courses and examinations in Arts will be accepted in Medicine:—

ARTS

1. Courses and examinations in Biology 1 and 2.

2. Courses and examinations in General Chemistry and Qualitative Analysis.

3. Course and examination in Organic Chemistry.

4. Course and examination in Physics 1 in Arts or Science.

5. Course and examination in Physics 2.

MEDICINE

1. Course and examination in first year General Biology.

2. Course and examination in first year Chemistry.

3. Course and examination in second year Chemistry.

4. Course and examination in first year Physics.

5. Attendance on Lectures until Christmas, in second year Physics.

The courses in Chemistry and Physics must be taken in the University; the classes will not be allowed to holders of certificates of Honour Matriculation.

FEES

Sessional Tuition Fees:

First year	\$140.00
Second and Third years	150.00
Fourth, Fifth and Sixth years (including Clinical Hospital facilities)	175.00
Sessional Laboratory Deposit (required from students in each of the six years)	10.00

Student Interests:

Aesculapian Society Fee—	
First Registration	6.00
Registered previously	4.00
Health Insurance Fee (each session)	4.00
Athletic Fee	5.00
Gymnasium Fee	3.00
Union Fee	3.00
Fee for Late Registration	3.00
Supplemental Examinations (in one or more subjects)	10.00
Ad eundem statum	10.00
Degrees of Doctor of Medicine and Master of Surgery	30.00
Degree of Doctor of Science	50.00
Diploma of Public Health	20.00
Extra Fee for Degree in Absentia	10.00

Graduation fees and laboratory deposits are payable to the Registrar of the University. All other fees are payable with the sessional fee at the office of the Secretary of the Medical Faculty in the Douglas Library Building.

Fees may be paid in two instalments, in which case an additional \$5.00 will be charged. At least half of the sessional tuition fee, together with all other fees and the laboratory deposit, must be paid at the time of registration, the balance to be paid on or before December 10th. No student will be admitted to classes until the above conditions have been complied with, nor will he be permitted to write on the Christmas examinations unless all fees have been paid in full.

The graduation fee is payable before the end of April. An extra fee of \$3.00 is charged after that date.

BOARD AND ROOM

During the session 1928-29 students have paid from \$5.00 to \$6.00 a week for board, and \$2.50 to \$3.00 for room, so that satisfactory board and lodging may be obtained at from \$7.50 to \$9.00 per week. Lists of boarding and lodging houses may be obtained from the Secretary of the Faculty.

MICROSCOPES

Every student entering the Faculty of Medicine will be required to have at the commencement of his studies, a first-class microscope of approved design. Such an instrument is an essential part of the equipment of a practitioner in medicine.

The Faculty of Medicine have made arrangements whereby such instruments can be purchased at a low price, either for cash at cost or by three equal annual payments which include carrying charges. In the latter case the microscope is retained by the University during vacations until payment is completed.

Further information regarding the microscopes and methods of payment may be obtained from the Secretary of the Faculty of Medicine.

PHYSICAL WELFARE OF STUDENTS

Every student is required upon registration to contribute \$4 towards a health insurance fund which the University will use to provide medical care for those who are ill.

Each first year student is given a physical examination by the University physician, and corrective exercises in the Gymnasium are prescribed when they are needed.

Gymnasium work for two hours each week is required of all first year students except those excused by the Medical Adviser. Voluntary classes are offered other students. The gymnasium is a modern stone building 60 x 105 feet and is equipped with lockers, shower-baths, a swimming pool, running track, and all apparatus for physical training.

ATHLETICS

As a member of the Canadian Intercollegiate Amateur Athletic Association, Queen's gives every opportunity for students to compete in intercollegiate athletics on some of the many teams representing the University, while the student who is not a good enough athlete to find a place on a University team has the chance to play in inter-year and inter-faculty games.

All athletic activities are controlled by the Athletic Board of Control, consisting of twelve members—four graduates, four Professors, and four undergraduates. Two of the Professors and the four undergraduate members are elected by the student body. This Board controls the rink, the playing fields, and the gymnasium, and has a supervision and power of veto over the management and expenditure of the rugby, soccer, hockey, basketball, tennis, track, and boxing, fencing, and wrestling clubs. Each student pays an Athletic Fee of \$5.00, which is collected with the sessional fee and paid to the Athletic Board of Control. A special Athletic Fee of \$3.00 to be applied toward the erection of a new Gymnasium has been authorized by the Senate at the request of the student body.

During the summer of 1921, through the generosity of Mr. James Richardson, of Winnipeg, a graduate in Arts of the University, the George Richardson Memorial Stadium was built on the Union Street Campus. The grand stand and bleachers accommodate about 6,000 spectators, and the playing field is unexcelled by any in Canada.

The Jock Harty Arena, built in 1921, was destroyed by fire in the spring of 1924. It was rebuilt on the same site during the summer. The new arena is equipped with an artificial ice plant.

STUDENT ADVISERS

In order to assist students in the selection of optional courses (in the case of freshmen) and in general in methods of study and in the solution of personal and class problems, a student adviser has been appointed for each of the first two years.

Adviser for the first year, 1929-30, Professor J. K. Robertson.
Adviser for the second year, 1929-30, Dr. G. Spencer Melvin.

THE ALMA MATER SOCIETY

Queen's was the first University in Canada to introduce Student Government. All students are members of the Alma Mater Society, the chief instrument of Student Government, and are expected to share in its duties and responsibilities.

A.M.S. Executive

Hon. President	Professor W. P. Wilgar
President	J. A. Broadbent
First Vice-President	Eileen McCarthy
Second Vice-President	J. C. Britton
Permanent Secretary	Lieut.-Col. Stevenson
Secretary	D. T. Burke
Treasurer	D. S. Abbott
Critic	S. A. Fisher
Science	H. J. Styles
Arts	H. N. Corbett
Medicine	A. W. Friend, B.A.
Theology	D. B. Gordon, B.A.
Levana	Janet Allen
Committee:—	Kaireen Lindsay, V. P. Monohan, H. W. Carter, Fred Warren.
Queen's Journal	I. H. Neville
Athletic Stick	T. C. Agnew
Chief Justice, A.M.S. Court	E. Y. Handford
Assistant Secretary	Isabel Elliott

THE AESCULAPIAN SOCIETY

All students registered in the Faculty of Medicine are members of the Aesculapian Society, and amenable to its rules and regulations.

Office Bearers

Honorary President	Dr. Frederick Etherington
President	A. W. Friend, B.A.
First Vice-President	G. B. Macpherson
Second Vice-President	R. B. C. Franklin
Secretary	C. H. Lewis
Assistant Secretary	W. J. Houghtling
Treasurer	T. M. Brown
Committeemen	Year '29, E. Y. Handford Year, 30, W. S. Millman Year '31, J. T. Tweddell Year '32, L. M. Barrie Year '33, Robt. Johnston

HIGHER DEGREES

DEGREE OF DOCTOR OF SCIENCE (D.Sc.)

The degree of D.Sc. is granted under the following conditions:

(1) A period of two years must elapse between graduation as M.D. and the completion of the course.

(2) Original and independent research in some subject of importance to medical science must be undertaken.

(3) The candidate must submit a thesis embodying the results of his research. The literary as well as the scientific quality of the thesis is to be taken into account in judging the candidate's fitness to proceed to the examination.

(4) The candidate must apply in writing to the Secretary at least two years before he proposes to present himself for final examination, and must submit the subject of his research for approval.

(5) The examinations upon subjects cognate to that of the thesis will be assigned by the Faculty and include a reading knowledge of scientific French or German.

DIPLOMA OF PUBLIC HEALTH (D.P.H.)

A. *For candidates who have taken the B.Sc., M.D. course.*

Such candidates will be entitled to enter for examination for this Diploma on presenting certificates of having taken:

(1) Three months in attendance and clinical instruction in a Hospital for infectious diseases.

(2) Three months in a Bacteriological Laboratory, devoted to bacteriological aspects of Public Health.

(3) One week in practical testing of milk and milk products for chemical constitution and common adulterations.

(4) Six months with a recognized Medical Officer of Health in the practical study of Sanitation.

B. *For candidates proceeding to take this Diploma after graduation as M.D.*

Such candidates will be entitled to enter for examination for this Diploma on presenting certificates of having taken:

- (1) Three months' course in Sanitary Physics (principles of statics, pneumatics, hydraulics, light, photometry, heat, thermometry, hygrometry).
- (2) Three months' course in Sanitary Chemistry, especially devoted to quantitative and qualitative analysis of air, water, and common foodstuffs; this course must include one week's work in practical testing of milk and milk products for adulteration or sophistication.
- (3) Three months' course in a Bacteriological Laboratory devoted to bacteriological aspects of Public Health work, such as examination of sputum, blood, swabs, water and milk, and the detection of common animal parasites.
- (4) Three months' course in advanced Hygiene, covering especially a discussion of sewage and garbage disposal, water supplies, disinfection, transmissible diseases, vital statistics and sanitary legislation.
- (5) Three months' course in Sanitary Engineering, including water services, sewerage systems, sewage and garbage disposal.
- (6) Three months' attendance and clinical instruction in a Hospital for Infectious Diseases.
- (7) Six months with a recognized Medical Officer of Health in the study of practical sanitation.

SCHOLARSHIPS AND HONOURS

The following scholarships and honours are awarded to students in the Faculty of Medicine. The scholarships, except those awarded in the final year, are tenable only by students in residence in the session following the award.

THE ROBERT BRUCE SCHOLARSHIP

The Robert Bruce Scholarship of about \$75 awarded at the end of the first year to the student of Scottish extraction making the highest number of marks in the examinations of that year. One-third of the value of the Scholarship will be paid to the winner in each of the second, third, and fourth years of his course, provided he is in attendance in the Faculty in which the award was made.

This Scholarship has been established under provisions in the will of the late Robert Bruce of Quebec, and similar scholarships are awarded in the Faculties of Arts and Science.

FACULTY SCHOLARSHIP

A Faculty Scholarship of \$50 awarded to the student making the highest number of marks on the examinations, of the second year.

THE NEW YORK ALUMNI ASSOCIATION SCHOLARSHIP

The New York Alumni Association Scholarship of \$50 awarded to the student making the highest number of marks in the courses in Embryology and Histology of the second year.

THE N. F. DUPUIS SCHOLARSHIP

The N. F. Dupuis Scholarship of \$60 awarded to the student making the highest number of marks in the examinations in Chemistry of the third year. This Scholarship was founded by the graduates as a mark of their appreciation of the long and effective services of the late Dr. N. F. Dupuis, Professor of Mathematics.

THE DEAN FOWLER SCHOLARSHIP

The Dean Fowler Scholarship of \$50 awarded to the student making the highest number of marks in the examinations of the fourth year.

THE D. T. SMITH PRIZE IN PHARMACOLOGY

A prize awarded to the student in the fourth year making the highest number of marks in the examination in Pharmacology.

THE DAVID EDWARD MUNDELL SCHOLARSHIP

The David Edward Mundell Scholarship of \$50, awarded to the student making the highest aggregate marks in the Surgical Applied Anatomy final examinations of the fifth and sixth years.

FACULTY SCHOLARSHIP

A Faculty Scholarship of \$50 awarded to the student making the highest number of marks in the examinations of the fifth year.

CANADIAN NATIONAL COMMITTEE FOR MENTAL HYGIENE SCHOLARSHIP

Canadian National Committee for Mental Hygiene Scholarship of \$50, awarded to the student making the highest number of marks in Psychiatry.

THE JAMES PRIZE

A Prize of \$20 in gold given by Dr. James of Mattawa for the best examination in final year Medicine and Clinical Medicine.

PROFESSOR'S PRIZE IN SURGERY

A prize awarded to the student in the final year making the highest standing in Surgical Subjects.

PROFESSOR'S PRIZE IN MEDICINE

A prize awarded to the student in the final year making the highest standing in Medical Subjects.

UNIVERSITY MEDALS

A University Medal awarded to the student making the highest number of marks in the examinations of the sixth year in Clinical Medicine, Pathology, Preventive Medicine, Psychiatry, and Jurisprudence.

A University Medal awarded to the student making the highest number of marks in the examinations of the sixth year in Clinical Surgery, Obstetrics, Gynaecology, Applied Anatomy, and Eye, Ear, Nose and Throat.

HOSPITAL APPOINTMENTS

Two Internships at the Kingston General Hospital, of twelve months each are awarded to students of the graduating class. These appointments must be approved by the Board of Governors of the Kingston General Hospital. Application for these appointments must be made to the Secretary of the Faculty not later than March 15th in each year.

Two Clinical Assistantships are available on the staff of the Ontario Hospital for the Insane during the summer. Applications must be made to the Superintendent, by whom the appointments are determined. Emphasis is laid on the special qualifications necessary for such work.

RICHARDSON FELLOW IN PATHOLOGY—GENERAL HOSPITAL

Mrs. A. F. Richardson has donated a sum of money to pay the salary of a clinical Pathologist to the Hospital. Appointment is open to graduates, preference being given to those who have previously served as Internes or taken special training in Pathology.

Salary, \$100 per month, with rooms and board in Hospital. Appointments may be held for one or more years at the discretion of the Committee. The appointee will have the status of a senior interne in Hospital, and outlining of duties will be under control of a Committee consisting of the Professors of Medicine, Surgery and Pathology.

EXHIBITION OF 1851—SCIENCE RESEARCH SCHOLARSHIP

This scholarship of the annual value of £250 stg., is awarded by Her Majesty's Commissioners for the Exhibition of 1851 to students who have given evidence of capacity for original research, and are under 26 years of age. A given number of scholarships are awarded annually to students in Canada, recommended by the universities approved by the Commissioners.

The nominee must be a British subject, must have been a *bona fide* student of science for three years, must have been a student of the University for a full year immediately before his nomination, must be a student of the University at the time of his nomination, and must pledge himself not to hold any position of emolument whilst holding the scholarship without special permission from the Commissioners. He is recommended to the Commissioners by the Senate of the University. The scholarship will be tenable ordinarily for two years, and in cases of exceptional merit, for three years. The scholar will in the absence of special circumstances be required to proceed to a country other than that in which he received his scientific training and there pursue some investigation likely to promote technical industries or scientific culture. The particular investigation the student proposes to pursue must be stated before a scholarship can be awarded.

THE GEORGE CHRISTIAN HOFFMAN FELLOWSHIPS

The Alpha Fellowship for Pathological Research of \$1,000 and the Beta Fellowship for extended studies in Surgery of \$750 awarded to recent graduates nominated by the Faculty and approved by the Senate of the University. The awards will be determined by the undergraduate record of the candidates and upon evidence of capacity for original research. Applications for these Fellowships should be made to the Secretary of the Faculty not later than the first of March in each year.

The holders of the Fellowships shall proceed to some Institution or University in Europe or the United States of America, approved by the Senate of the University, where post-graduate study and research may

most advantageously be pursued. The Fellowships may be tenable for a second or even a third year, upon the recommendation of the Faculty.

The George Christian Hoffman Fellowships have been awarded as follows:

In Pathology:—1919, Clifford D. Gallagher, M.B. (1916), M.D., C.M. (1921).

1921, Theo. J. Curphey, M.D., C.M. (1921).

1923, Wm. Susman, B.A., M.D., C.M. (1923).

1926, P. Thomas McIlroy, M.B. (1916), M.D., C.M. (1921).

1927, John H. Orr, M.D., C.M. (1923).

1928, G. Harold Ettinger, B.A., M.D., C.M. (1920)

In Surgery:—1921, Lyon H. Appleby, M.D., C.M. (1919).

1922, Calvert M. Carruthers, M.D., C.M. (1921)

1923, C. Merlin Eynon, M.D., C.M. (1922).

1924, Arnold R. Richards, M.D., C.M. (1923).

1925, N. Roy Houston, M.D., C.M. (1922).

1926, Stuart W. Houston, M.D., C.M. (1924).

1927, John L. McKelvey, B.A., M.D., C.M. (1926).

1928, Nathan E. Berry, M.D., C.M. (1926).

1929, Nathan E. Berry, M.D., C.M. (1926).

REQUIREMENTS FOR LICENSE

Kingston is a centre for the Examinations of the Medical Council of Canada, and also for those of the College of Physicians and Surgeons of Ontario. Graduates who propose to take the examinations of these licensing bodies, are able to do so immediately after the examinations of the University. The written examinations are held in one of the University buildings, and the clinical examinations in the General Hospital.

DOMINION OF CANADA

A University Degree does not give the right to practise the profession of Medicine. It is also necessary to conform with the laws pertaining to the practice of Medicine in the province, state or country in which it is proposed to begin practice. The Medical Council of Canada issues a diploma which is accepted for registration in any province of the Dominion.

In order to qualify for the examinations of the Canada Medical Council, the candidate must hold the license of a Provincial Board, or present a certificate from the Registrar of a Provincial Medical Council that he holds a medical degree from an approved Medical College. Students are advised to secure this qualification in preference to one from any provincial council. The announcement of the Medical Council of Canada may be obtained from Dr. R. W. Powell, Registrar, 180 Cooper Street, Ottawa.

Each province in Canada has a special standard of medical education and special requirements for license. Detailed information as to qualifications for the practice of Medicine in the various provinces may be obtained from the Provincial Registrars, as follows:

Alberta: DR. G. D. JOHNSTON, 244 Seventh Avenue West, Calgary.

British Columbia: DR. A. P. PROCTOR, 570 Granville St., Vancouver.

Manitoba: DR. J. E. COULTER, 605 Medical Arts Building, Winnipeg.

New Brunswick: DR. S. H. MACDONALD, 56 Coburg St., Saint John, N.B.

Newfoundland: DR. T. MITCHELL, St. John's.

Nova Scotia: DR. W. H. HATTIE, Provincial Health Dept., Halifax.

Ontario: DR. H. WILBERFORCE AIKINS, 170 University Ave., Toronto.

Prince Edward Island: DR. JAMES WARBURTON, Kent St., Charlottetown.

Saskatchewan: DR. A. M. YOUNG, Saskatoon.

Quebec: DR. JOSEPH GAUVREAU, 364 rue Ste. Catherine Est, Montreal.

GREAT BRITAIN AND IRELAND

The General Council of Medical Education and Registration has general supervision over the various licensing and examining Boards and keeps the Medical Register. The main licensing and examining bodies recognized in Great Britain apart from the universities are as follows:

In England:—The Conjoint Board of the Royal College of Surgeons of England and Royal College of Physicians of London, and the Society of Apothecaries, London. Information can be obtained from the Secretary of the English Conjoint Board, 8-11, Queen Square, Bloomsbury, London, W.C. 1, and the clerk of the Society of Apothecaries, Water Lane, Blackfriars, E.C. 4.

In Ireland:—The Conjoint Board of the Royal Colleges of Physicians and Surgeons of Ireland, and the Apothecaries' Hall of Ireland. Information can be obtained from the Secretary of the Irish Conjoint Board, Royal College of Surgeons, Dublin, and the Registrar, Apothecaries' Hall of Ireland, 93, Merrion Square, Dublin.

In Scotland—The Conjoint Board of the Royal Colleges of Physicians and Surgeons of Edinburgh and the Royal Faculty of Physicians and Surgeons of Glasgow. Information can be obtained from the Secretary of the Scottish Conjoint Board, 49, Lauriston Place, Edinburgh.

Certificates of Queen's University Medical Faculty are accepted by these Boards for admission to their examinations, so that those possessing the degree of M.D. from Queen's University are entitled to all the privileges in Great Britain that are accorded to students and graduates of other Colonial Colleges and Universities.

UNITED STATES

The Journal of the American Medical Association publishes an Abstract of the Laws regulating the Practice of Medicine in the various States and Territories of the United States. The price of the pamphlet is 50c., and it may be obtained by addressing the American Medical Association, 535 North Dearborn Street, Chicago, Ill.

The Medical School is listed as Class A by the Council of Medical Education and Hospitals of the American Medical Association.

COURSES OF INSTRUCTION

ANATOMY

A

DESCRIPTIVE AND PRACTICAL ANATOMY

Professor - - D. C. MATHESON, M.B.
Fellow - - - H. S. ANGROVE, M.D., C.M.
Fellow - - - F. J. O'CONNOR, M.D., C.M.
Demonstrator J. S. DELAHAYE, M.D., C.M.

SECOND YEAR

- (a) The study of the bones and the dissection of the upper extremity.
- (b) The bones of the trunk and dissection of the thorax.
- (c) The bones of the head and dissection of the head and neck.
- (d) Class review and demonstration on the parts dissected, conducted twice weekly.
- (e) In addition to the above, an elementary course of lectures on the Systematic Anatomy of the body as a whole.

THIRD YEAR

- (a) The study of the bones and the dissection of the lower extremity.
- (b) The dissection of the abdomen and pelvis.
- (c) The dissection of the brain.
- (d) Class review and demonstration on the parts dissected, conducted twice weekly.
- (e) A review of the work of the second year.

Students must dissect the whole of the human body, during the course. Preliminary and final oral examinations are required from each student, on each part dissected. Besides these, mid-sessional written examinations are held in December, and final written examinations at the close of the spring term. Students must complete the dissection and take all oral examinations before being allowed to proceed with the final written examinations.

Bones of the head, trunk and upper extremity are loaned to second year students and bones of the lower extremity to third year students.

The dissecting room is open from 9 a.m. to 5 p.m., and during the hours for dissection the professor and demonstrators are in constant attendance guiding and assisting the work of the students. One entire flat of the Medical Building is devoted to anatomical purposes. The dissecting room is large, well lighted and thoroughly ventilated. A good supply of the best dissecting material, prepared in the most approved manner, is constantly on hand for the use of the students.

Arrangements may be made by graduates and others for the use of the dissecting room and for material for special study.

TEXT-BOOKS AND BOOKS OF REFERENCE

Gray, Cunningham, Piersol, Morris, Buchanan, Heisler Cunningham: *Manual of Practical Anatomy*. Walmsley: *Practical Anatomy*. Parsons and Wright: *Practical Anatomy*. Ranson: *Anatomy of the Nervous System*. Sobotta-McMurrich: *Atlas of Human Anatomy*. Spalteholz: *Hand Atlas of Human Anatomy*. Toldt: *An Atlas of Human Anatomy*. Eycleshymer and Schoemaker: *A Cross-section of Anatomy*. Thompson: *Elements of Surface Anatomy*. Herrick: *Neurology*.

B

MEDICAL AND SURGICAL ANATOMY

Professor - - - L. J. AUSTIN, M.Ch., F.R.C.S.Eng.

Assistant Professor—S. J. KEYES, M.D., C.M.

Assistant Professor—J. F. SPARKS, B.A., M.D., C.M.

The students are taught to make practical use of the facts of anatomy, and the application of these to medical and surgical practice is shown. Attention is directed to the manner in which the anatomy affects the course and progress of disease, and to the alteration in the anatomical relations in disease. Special attention is given to displacements in fractures and dislocations, topographical anatomy, and ligation of arteries.

APPROVED TEXT-BOOKS

Davis, Treves and Keith, Beesly and Johnson, Campbell. Rawling: *Landmarks and Surface Markings*.

BACTERIOLOGY

Professor—GUILFORD B. REED, M.A., B.Sc., Ph.D.

Lecturer—JOHN H. ORR, M.D., C.M.

THIRD YEAR

1. *General and Pathogenic Bacteriology.* This course covers the general principles of bacteriology. The lectures deal with the structure and physiology of bacteria, the theories of infection and immunity and a systematic study of the pathogenic bacteria. Laboratory practice includes the preparation of culture media and the biochemical, cultural and microscopic study of bacteria. The principal pathogenic bacteria are isolated from hospital material.

Professor Reed and Dr. Orr.

Text-books:—Zinsser: *Text Book of Bacteriology*.

FOURTH YEAR

2. *Parasitology.* A laboratory study of the principal lower animal parasites.

3. *Immunology and Clinical Bacteriology.* The work of this course consists of a systematic examination of the principles of infection and immunity, the production of immune bodies and immune reactions. This will be supplemented by a detailed bacteriological study of selected cases. Laboratory work, prescribed reading and reports.

Professor Reed and Dr. Orr.

Text-books:—Zinsser: *Text Book of Bacteriology*. Karsner and Ecker: *The Principles of Immunology*. Chandler: *Animal Parasites of Man*.

ELECTIVE COURSES

4. *Bacteriology and Mycology of Water and Foods.*

A study of decay and fermentation processes in various kinds of foods, including milk and dairy products, and the distribution of pathogenic organisms in foods, water and sewage.

Lectures, reading and laboratory practice.

Professor Reed.

5. *Research.* Properly qualified students who wish to make a special study of Bacteriology are admitted to the laboratory to undertake special problems. This work may be carried out during the session or in the summer, or both.

Professor Reed and Dr. Orr.

BIOLOGY

Associate Professor—R. O. EARL, B.A., M.Sc., Ph.D.
Lecturer—

FIRST YEAR

1. *General Biology*—A course of three lectures and six hours of laboratory work per week through the session.

First Term: An elementary study of the morphology and physiology of the unicellular plants and animals, the larger algae, the fungi, sponges, coelenterates, mosses, ferns, and seed plants. Types of the chief plant diseases. Food manufacture, digestion, transference and utilization in plants and animals. Reproduction, asexual and sexual, alternation of generations. The nature and responses of protoplasm, and the formation of new cells.

Second Term: The dissection and study of worms, mollusks, arthropods, fishes, amphibians and birds. A special study of the anatomy and physiology of a mammal. The origins of the protective, digestive, locomotory and circulatory systems. The principles of taxonomy; the identification of the poisonous and medicinal plants and the commoner animals of Canada. Evolution, heredity and eugenics.

Texts: Woodruff, L. L.: *Foundations of Biology*, third edition.
Baitsell: *Manual of Biological Forms*, The Macmillan Co.

CHEMISTRY

Associate Professor of Biochemistry—J. F. LOGAN, M.A., Ph.D.
Lecturer in General Chemistry— R. L. DORRANCE, M.A.
Assistant in Organic Chemistry— J. M. BAXTER.

All lecture and laboratory classes in Chemistry are conducted in Gordon Hall.

Monthly examinations are held throughout the session and the standing of the student is determined by the results of these examinations and by the character of his laboratory work, as well as by the grade obtained at the annual examination.

No student is admitted to the annual examination who has failed to attain a certain standard in the laboratory exercises.

A laboratory deposit of \$10 for each course is required to cover breakage of apparatus and damage to laboratory property and must be paid to the Treasurer of the University before a locker will be assigned.

FIRST YEAR

1. General Chemistry and Analysis.

(a) A course of three lectures per week on the fundamental laws and theories of these two subjects. This course includes a description of the common elements and compounds and a discussion of elementary qualitative analysis. The lectures are illustrated by demonstrations and laboratory exercises.

(b) A course of six hours per week of laboratory exercises in General Chemistry and Analysis. These exercises aim to train the student in laboratory technique, in learning the properties of the elements and their common compounds, and in the detection of the positive and negative radicals of all the common salts. Volumetric analysis is also included in the course.

Text-books:—Kendall, *Smith's College Chemistry* and *A Laboratory Outline of Smith's College Chemistry*. Newth, *A Smaller Chemical Analysis*.

Collegiate chemistry with laboratory exercises should precede this course.

Collegiate chemistry A 1 (Arts Calendar) will not be accepted as equivalent to the first year medical chemistry unless offered in conjunction with the course in qualitative analysis, A 2.

SECOND YEAR

2. Organic Chemistry.

Two hours lectures, and two hours laboratory work per week, throughout the year.

The principles of organic chemistry, essential as a foundation for an understanding of physiological chemistry, are discussed. Typical organic compounds are prepared in the laboratory and the properties and reactions of the more important classes of organic compounds of both the methane and benzene series are studied in detail.

Text-books:—Lowy and Harrow: *Introduction to Organic Chemistry*. Fisher: *Laboratory Manual of Organic Chemistry*.

THIRD YEAR

3. *Physiological Chemistry.*

Two hours lectures, and five hours laboratory, per week, are given throughout the year.

The course includes a detailed study of the properties of the carbohydrates, lipoids and proteins and of the chemical processes involved in respiration, secretion, digestion, absorption, metabolism and excretion and the chemistry of the tissues. The composition of foods and the elements of the science of nutrition are also discussed.

Text-books:—

Bodansky: *Introduction to Physiological Chemistry.*

Bodansky and Fay: *Laboratory Manual of Physiological Chemistry*, and

Hawk and Bergeim: *Practical Physiological Chemistry*, or

Morse: *Applied Biochemistry.*

BOOKS OF REFERENCE

Sutton: *Volumetric Analysis.* Norris: *Principles of Organic Chemistry.* Bancroft: *Applied Colloid Chemistry.* Mathews: *Physiological Chemistry.* Robertson: *Principles of Bio-chemistry.* Macleod: *Physiology and Biochemistry in Modern Medicine.* Cole: *Practical Physiological Chemistry.* Lusk: *The Science of Nutrition.* Sherman: *The Chemistry of Food and Nutrition.* Sherman and Smith: *The Vitamines.* Monographs on Biochemistry.

FOURTH AND FIFTH YEARS

4. *Pathological Chemistry.*

A course of one lecture a week on the chemistry of pathological processes.

Reference books:—Wells: *Chemical Pathology.* Beaumont and Dodds: *Recent Advances in Medicine.* Campbell and MacLeod: *Insulin and Diabetes.* MacLean: *Modern Methods in the Diagnosis and Treatment of Renal Disease.* Rehfus: *Diseases of the Stomach.*

ENGLISH LANGUAGE AND LITERATURE

Associate Professor—HENRY ALEXANDER, M.A.

Assistant Professor—WILHELMINA GORDON, M.A.

Lecturer - - - R. W. CUMBERLAND, M.A.

FIRST YEAR

English 1, *Prose Composition, with Literary Background.*

A practical course in Prose Composition, with parallel reading. In the examination both knowledge of the texts and ability to write clearly and correctly will be required.

Prescribed Texts:—J. G. French, *Writing* (New York: Harcourt, Brace & Co.). Shakespeare: *Romeo and Juliet*, Arden edition (Boston: D. C. Heath & Co.). *Modern Prose*, King's Treasury Series, (London and Toronto: J. M. Dent & Sons). *Selected English Essays*, King's Treasury Series. *Selected Short Stories*, World's Classics, Nos. 193, 228 and 315 (Toronto: Oxford University Press). In addition to the foregoing each student must possess a satisfactory English dictionary, preferably the *Concise Oxford Dictionary*, (Toronto: Oxford University Press).

EYE, EAR, NOSE AND THROAT

Professor - - - J. C. CONNELL, M.A., M.D.

Assistant Professor—F. A. CAYS, M.D., C.M.

Clinical Assistants—H. C. CONNELL, B.A., M.D., C.M.
H. P. FOLGER, B.A., M.D., C.M.

The course of lectures, clinics and demonstrations throughout the fifth and sixth years. Practical lessons in the use of the ophthalmoscope and laryngoscope are given to the classes in sections.

BOOKS OF REFERENCE

Swanzy, Fuchs, Gleason, St. Clair Thompson, Hays, Phillips.

GYNAECOLOGY

Professor - - - G. W. MYLKS, M.D., C.M.

Clinical Assistants—M. J. MORISON, M.D., C.M.
PRESLEY MCLEOD, M.D., C.M.

FIFTH YEAR

The course includes methods of pelvic examination, the disorders of menstruation, diseases of the female generative organs, injuries to the pelvic floor, urinary bladder and rectum, malformations and displacements of the uterus, extra-uterine pregnancy and benign and malignant growths affecting the female genitalia.

At the Hospital, demonstrations are given in operative technique, post-operative treatment and instruments used in gynaecologic cases, also in the application of pessaries and such local treatments as douches, tamponade, etc. The various pelvic and vaginal operations are performed before sections of the class.

SIXTH YEAR

The work of the sixth year is taken up in the hospitals and is largely clinical and operative, including special methods of examination such as cystoscopy, etc. Special attention is given to the pathology of pelvic growths.

BOOKS OF REFERENCE

Eden and Lockyer, Herman, Eden, Anspach, Graves, Crossen, Kelly, Barbour and Watson.

HISTORY

Associate Professor—REGINALD G. TROTTER, Ph.D.

FIRST YEAR

History 2. *British History since 1714.*

The lectures will deal with such topics as the following: The Hanoverian succession as the corollary of the Revolution of 1688; the development of party government and the cabinet; Imperial expansion and dismemberment; eclipse of the Whigs; the French Revolution and domestic reaction; the Industrial and Social Revolutions; the democratization of the constitution; the growth and government of the new Empire; Ireland; Britain and the Powers in the nineteenth century; the Empire in the World War; problems of peace and reconstruction.

T. F. Tout, *Advanced History of Great Britain*, Part III (Longmans).

A. S. Turberville, *English Men and Manners in the Eighteenth Century* (Oxford Press).

G. M. Trevelyan, *British History in the Nineteenth Century* (Longmans).

HISTORY OF MEDICINE

Professor—THOMAS GIBSON, M.A., M.B., C.M., Edin.

SIXTH YEAR

This course consists of a weekly series of informal talks illustrative of the great episodes in the History of Medicine. Interest naturally centres around the lives of the great path finders, and the fresh truths they gave the world.

As far as possible these are exemplified by quotations from their writings, from Hippocrates to Lister.

MEDICAL JURISPRUDENCE

Professor—R. J. GARDINER, M.D., C.M., F.A.C.S.

Lecturer—T. J. RIGNEY, B.A., K.C.

SIXTH YEAR

The course in Jurisprudence includes the following: legal criminal procedure; Coroner's court; medical evidence, identity; modes of dying; sudden death, signs of death; homicide, suicide; wounds, burns and scalds; fractures and dislocations; suffocation, hanging and strangling; drowning; death from starvation, cold and heat, lightning and electricity; marriage and divorce; offences against chastity; pregnancy and delivery; criminal abortion; infanticide, causes of death to the foetus; legitimacy, impotence, sterility; malingering and feigned diseases; survivorship, life assurance, wills, malpractice; Workmen's Compensation Act.

BOOKS OF REFERENCE

Taylor: Hamilton; Peterson, Haines and Webster; Buchanan; Sidney Smith.

MEDICINE AND CLINICAL MEDICINE

Professor—W. T. CONNELL, M.D.

Associate Professor—E. C. D. MACCALLUM, M.D.

Associate Professor—WM. GIBSON, M.D.

Assistant Professor—J. P. QUIGLEY, M.A., M.D.

Lecturer—B. H. HOPKINS, M.B.

Clinical Assistant—J. R. THIRD, B.A., M.D.

Clinical Assistant—P. M. MACDONNELL, M.A., M.D.

Clinical Assistant—G. H. BIRD, M.B.

FOURTH YEAR

1. *Physical Diagnosis.*

The course covers the methods of examination of patients, including the principles and methods of physical diagnosis and the taking of case records. Four hours per week are spent on this work.

2. *Infectious Diseases.*

By way of introduction to the study of Medical diseases, lectures are given one hour weekly on the Infectious Diseases. Opportunity is taken to show examples of these conditions in the wards of the Isolation and General Hospitals.

3. *Metabolic Diseases.*

In association with the class work in Pathological Chemistry, one hour per week is devoted to the clinical discussion of the Diseases of Metabolism.

FIFTH YEAR

The work of the fifth year is mainly clinical. Students are assigned as clinical clerks and under the supervision of the house physician are responsible for the preparation and recording of case histories, including the necessary physical and laboratory examinations. The class is divided into sections for ward teaching under special instructors and each section must spend three two-hour periods per week in this work.

A review of the main systemic diseases, their etiology, course, symptoms and diagnosis is also carried on during the session.

SIXTH YEAR

Work during this year is entirely clinical. Each member of the class will be required to serve a term as a junior interne and be responsible under the House Physician for the supervision and records of patients under his charge.

Clinical teaching will be carried on by Instructors as per time-table.

TEXT BOOKS

Clinical Methods: Cabot, Foster, Emerson, Rose, Hutchison and Rainey.

Practice of Medicine: Osler and McCrae; Stevens; Monro; Price; Cecil.

Skin Diseases: Walker, Schamberg, McKenna, Sutton, Sequeira, Hartzell.

Nervous Diseases: Purves Stewart, Church and Peterson, Thomson and Riddoch, Wechsler.

Heart Diseases: MacKenzie, Price, Reid, Calvin Smith, Cabot.

Therapy: Osborne, Sorapure, Rudolf, De Costa, Hutchison and Sherren.

BOOKS OF REFERENCE

French, "Differential Diagnosis"; Morris, "Dictionary of Practical Medicine"; Wilson, "Internal Medicine"; Ker, "Infectious Diseases"; Rolleston, "Infectious Diseases"; Norris and Landis, "Diseases of the Chest"; Savill, "Clinical Medicine," Martinet, "Clinical Diagnosis"; Greene, "Medical Diagnosis"; "International Clinics" (Lippincott).

RADIOLOGY AND PHYSICAL THERAPY

Assistant Professor—W. A. JONES, M.D.

FIFTH YEAR

The course in radiology is of two hours weekly in practical radiography and film reading.

One hour a week is used for classes in Physical Therapy. These classes include lectures on, and demonstrations of all the standard physical therapeutic measures.

SIXTH YEAR

Lectures in radiology are given once a week during the first term.

In addition to this, Clinical X-Ray demonstrations are given twice a week.

BOOKS OF REFERENCE

Baetjer and Waters: Injuries and Diseases of Bones and Joints. Jerman: Modern X-Ray Technic. McKendrick and Whittaker: An X-Ray Atlas of the Body. Carman: The Roentgen Diagnosis of Diseases of the Alimentary Canal. Witherbee and Remer: X-Ray Dosage. Braasch: Urography. Massey: Practical Electro Therapeutics and Diathermy. Russel and Russel: Ultra Violet Radiation and Actinotherapy.

OBSTETRICS

Professor - - - - - G. W. MYLKS, M.D., C.M., F.A.C.S.
Clinical Assistants- -M. J. MORISON, M.D., F. J. O'CONNOR, M.D.,
P. H. HUYCK, M.D., C. H. ELLIOTT, M.D.,
C. W. BENNETT, M.D., C.M., PRESLEY
MCLEOD, M.D., C.M.

For fifth year students the course in Obstetrics includes the anatomy of the pelvis; anatomy, anatomical relations and physiology of the organs of generation; menstruation, ovulation and conception; development of the embryo, foetus and foetal appendages; the diagnosis of pregnancy, phenomena and management of normal labor; management of the mother and infant during the puerperal period; mechanism and management of labor for the several presentations; twin pregnancy and labor.

SIXTH YEAR

In the sixth year the pathology of pregnancy, parturition and the puerperium is taken up. Under this heading are considered the diseases of the membranes and placenta; the diseases and disorders of pregnancy; the effects of certain diseases on pregnancy and parturition; mensuration of the pelvis; dystocias resulting from deformed pelvis; faulty mechanism, mal-presentations and positions; ante partum and post partum hemorrhage; diseases incident to the puerperium; and obstetric surgery. The lectures are illustrated by the artificial pelvis, drawings and models. The class is admitted to the practice of the maternity wards of the Hospital and Hotel Dieu, where practical instruction is given in the management and care of such cases.

BOOKS OF REFERENCE

Williams; Berkeley, Andrews and Fairbairn; Hirst, Eden, Galabin and Blacker, De Lee, Polak.

PATHOLOGY

Professor—JAMES MILLER, M.D., D.Sc., F.R.C.P. Ed., F.R.S.C.
Assistant Professor—W. D. HAY, M.A., M.D.
Richardson Fellow in Pathology—J. A. HANNAH, M.D., C.M.
Demonstrators—W. F. CONNELL, M. R. MOORE, G. B. MAC-PHERSON, D. H. YOUNG.

FOURTH YEAR

1. *General Pathology.* Students of the fourth year attend a course of lectures and demonstrations in General Pathology covering three

hours per week. Two additional hours per week are spent in the laboratory studying microscopic preparations illustrating the matter discussed in the lectures.

2. *Clinical Microscopy.* Three hours per week are spent in chemical and microscopical examination of urine, blood, gastric contents, faeces, exudates, transudates, cerebro-spinal fluid, and animal parasites.

FIFTH YEAR

3. *Pathology and Morbid Anatomy.* Students of the fifth year attend a series of lectures and demonstrations in Pathology and Morbid Anatomy occupying five hours per week during the session. Two hours are devoted to lectures, two to practical work, mainly microscopic in character, and one to museum work.

Each student when assigned to cases in the hospital wards is required to make the microscopical and chemical examinations necessitated by the case. Assistance in these examinations will be given by the members of the Department of Pathology on request.

Students in rotation assist in making autopsies and are required to furnish during the course of the fifth and sixth years reports on at least ten cases, including in these reports the clinical history, morbid anatomy and histology and pathology of the case, along with a critical review of the pathogenesis and the causes of death. Five of the ten cases must be handed in during the fifth year and of these five two must be completed before the Christmas vacation. These cases will be marked and annotated by the members of the medical, surgical and pathological staffs, and the marks obtained recorded. No student will be allowed to complete his course who has not obtained at least 60% of marks over the whole series.

SIXTH YEAR

4. A course of lectures and practical work, three hours per week, in Serology is given during the Session. In addition to this work the cases taken up at the Clinical Conference each week are studied as regards their morbid anatomical and histological details.

Clinico-pathological Conferences.—Conferences on medical and surgical cases in their clinical, pathological and bacteriological aspects are held each Saturday morning throughout the session. These are open to students of the fifth and sixth years. The cases brought up at these conferences form the basis of the reports mentioned above.

A laboratory deposit of \$10 per session is required in all courses in pathology and must be paid with the sessional fee.

APPROVED TEXTS

Pathology:—Delafield and Prudden, MacCallum, Hewlett, Beattie and Dickson, Miller, Muir, Karsner.

Pathological Histology:—Mallory, Woodhead, Leighton.

Pathological and Bacteriological Technique:—Mallory and Wright.

Clinical Microscopy:—Stitt, Todd, Hawk, Cummer, Beaumont and Dodds.

Serology:—Karsner and Ecker, Zinsser, Kolmer.

PEDIATRICS

Professor of Pediatrics—R. R. MACGREGOR, M.D.

FIFTH YEAR

This course includes the general care and management of infants, clinical investigation of diseases in infants, injuries and diseases of the newly born, infant feeding, derangements of nutrition, diseases due to faulty nutrition, diseases of the digestive system, respiratory diseases, acute infectious diseases, and practical demonstrations of the preparation of infant foods.

SIXTH YEAR

Clinics

Text-books: Holt, Grulee.

BOOKS OF REFERENCE

Still, Hutchison, Griffith, Thompson, Dennett, Talbot and Morse, Porter and Carter, Feer.

PHARMACOLOGY, MATERIA MEDICA, PHARMACY AND THERAPEUTICS

Douglas Professor of Therapeutics—THOMAS GIBSON, M.A., M.B., C.M., Edin.

The lecture course deals with the dynamic action of drugs upon the various parts of the body. An effort is made to exemplify these effects by citation of cases observed in medical practice. The value of endocrines in treatment, according to present knowledge, is discussed. Forms of administering drugs are illustrated throughout the course by the writing and discussion of prescriptions.

At the beginning of the course some systematic lectures are given upon pharmaceutical methods of preparing drugs for use, pharmacal methods of compounding, and incompatibilities.

In the experimental course, the actions of typical drugs are observed upon the living tissues of frogs, guinea pigs, rabbits and cats. The first six weeks of the course are devoted to practical work in pharmacy.

The Professor of Pharmacology and Therapeutics lectures once a week to fifth and sixth year students, taking up the treatment of certain medical diseases.

Relevant monographs or articles in systems are referred to as occasion arises.

BOOKS OF REFERENCE

Pharmacology: Cushny, Dixon, Sollman, Meyer and Gottlieb, Solis-Cohen.

Materia Medica and Therapeutics: Hale White.

Practical Pharmacology: Dixon.

PHYSICS

Professor—A. L. CLARK, M.A., Ph.D., F.R.S.C.

Professor—J. K. ROBERTSON, M.A., F.R.S.C.

Lecturer—W. V. BALL, B.A.Sc.

Assistant—A. MULLIGAN, B.A.

FIRST YEAR

1. *Elementary Physics.*

(a) A course of three lectures per week throughout the year. The course includes lectures on Statics, Dynamics, Properties of Matter, Heat, and Light. Special emphasis is given to such subjects as Surface Tension, Osmotic Pressure, and some of the physical properties of Colloidal Solutions. While the course is one on the fundamental laws of Physics, examples of the application of these laws to Medicine are introduced wherever it seems advisable to do so.

(b) Two hours per week in the laboratory.

Text-book: Russ: *Physics for Medical Students.*

SECOND YEAR

2. *Electricity and Magnetism, Conduction of Electricity through Gases, Roentgen Rays and Radioactivity.*

(a) A course of two lectures per week in which a thorough elementary treatment of the above subjects is given. In the latter half of the course the lectures are designed to familiarize the student with modern X-ray equipment and its operation, as well as with the physical nature of radiations of therapeutic value.

(b) *Laboratory*—Two hours per week.

Text-books: Russ: *Physics for Medical Students*. Robertson: *X-Rays and X-Ray Apparatus*.

PHYSIOLOGY

Professor - - - - - G. SPENCER MELVIN, M.D., Aberd.

Lecturer in Embryology—G. H. ETTINGER, B.A., M.D.

Fellow—

SECOND YEAR

1. *Histology*. The earlier part of the course consists of a detailed study of the principal tissues of the body. Preparations of these are made and examined in the fresh condition and in mounted specimens. This is followed by a study of the structure of the organs of the body. In the laboratory the student is trained in the technique of the different methods of making microscopic preparations and each student must cut, stain and mount a number of sections from fresh material. For this work the class is divided into small sections which work under the immediate supervision of the staff at hours to be arranged.

A complete collection of mounted slides is supplied.

Text-books:—Jordan: *Histology*.

Schafer: *Essentials of Histology*.

2. *Embryology*. The course consists of one lecture period and two hours' laboratory work per week on the embryology of the chick and pig.

Text-books:—Lillie and Moore: *A Laboratory Outline of Embryology*.

Arey: *Developmental Anatomy*.

Jordan and Kindred: *A Text Book of Embryology*.

THIRD YEAR

3. *Experimental Physiology.* This is a laboratory course in the dynamics of muscle and nerve, nervous system, circulation and respiration, digestion, excretion, secretion, etc.

Text-book:—Schafer: *Experimental Physiology.*

4. *Physiology.* The subject is treated systematically and is supplemented by demonstrations and by the work in the experimental class. Special emphasis is laid on the application of Physiology to clinical study.

Text-books:—Halliburton: *Handbook of Physiology.*

Howell: *Text-book of Physiology.*

MacLeod: *Physiology and Biochemistry in Modern Medicine.*

5. *Histology.* The class meets in small sections for review, and tutorial instruction is given in special methods of microscopic technique.

OPTIONAL COURSES

6. *Research in Physiology.* Properly qualified students are admitted to the laboratory for post-graduate study and special research.

BOOKS OF REFERENCE

Howell, Stewart, Tigerstedt, Starling, Schafer, Luciani, Bayliss, Porter. Quain: *Microscopic Anatomy.* Schafer: *The Endocrine Organs.* Cannon: *Mechanical Factors of Digestion.* Pavlov: *Work of the Digestive Glands.* Sherrington: *Integrative Action of the Nervous System.* Quain: *Embryology.* Vincent: *Internal Secretions and the Ductless Glands.* Lillie: *Development of the Chick.* Bailey and Miller: *Text-book of Embryology.* McMurrich: *Development of the Human Body.* Keith: *Human Embryology and Morphology.* Kellicott: *Elements of Chordate Development.* Keibel and Mall: *Embryology.* Gray's *Anatomy, Section on Embryology.* Patten: *Development of the Chick.* Marshall: *Physiology of Reproduction.*

POLITICAL AND ECONOMIC SCIENCE

Professor—W. A. MACKINTOSH, M.A., Ph.D.

FIRST YEAR

Economics 2. Introduction to Politics.

An approach to the study of the state, its origin, form and activities, and a study of the working of governments, particularly those of the United Kingdom, United States and Canada.

Assigned Readings.

PREVENTIVE MEDICINE

Professor—

Lecturer.—C. W. BENNETT, M.D.

SIXTH YEAR

The lectures are taken during the sixth year, and include the subjects of food, water, air and ventilation, sewage disposal, dwellings, hospitals, climate and soil in their relation to the public health. The nature, methods of spread and means of prevention of the infective diseases are also considered, including isolation, disinfection, quarantine, preventive inoculation and serum therapy. School hygiene, industrial hygiene, vital statistics and the laws governing control of public health are discussed. Attention is also directed to the application of sanitation to barracks, camps and armies in the field.

BOOKS OF REFERENCE

Park: *Public Health and Hygiene*. Bergey: *Principles of Hygiene*. Rosenau: *Preventive Medicine and Hygiene*. Fitzgerald: *Introduction to the Practice of Preventive Medicine*.

PSYCHIATRY

Professor—EDWARD RYAN, B.A., M.D.

Clinical Assistants—G. C. KIDD, M.B.;

A. McCausland, M.D.

C. H. McCuaig, M.D.

A. J. Kilgour, Phm.B., M.B.

A study of Psycho-pathology, including lectures on disturbances of apprehension, attention, memory, judgment, ideation, and of the train of thought, and a discussion of hallucinations and delusions.

Lectures are given on the psychoses and neuro-psychoses, which are fully illustrated and carefully studied in the wards and laboratories of the hospital. The course is made as clinical and as practical as possible. Instructions in the various intelligence tests are also given and laboratory work is an important feature of the course.

Students who desire to follow the practice of Psychiatry after graduation, either in institutional or in private practice, are granted special privileges for honor work in this subject.

PSYCHOLOGY

Professor of Philosophy—GEORGE HUMPHREY, M.A., Ph.D.
Lecturer in Psychology—ARCHIBALD McCUSAULAND, M.D.,
Ontario Hospital, Kingston.

SECOND YEAR

A study of normal behaviour and consciousness, including lectures with patients, and clinical demonstrations at the Rockwood Hospital. These are the initial and basic lectures leading up to the course in Psychiatry. Students should purchase

Pillsbury: *Essentials of Psychology* (Macmillan).
Terman, *Test Material for the Measurement of Intelligence* (Houghton Mifflin).

SURGERY

Professor - - - L. J. AUSTIN, M.Ch., F.R.C.S.
Associate Professor—F. ETHERINGTON, M.D.
Associate Professor—I. G. BOGART, M.D.
Assistant Professor—J. F. SPARKS, B.A., M.D.
Assistant Professor—R. J. GARDINER, M.D.
Assistant Professor—S. J. KEYES, M.D.

FOURTH YEAR

The student is first brought in contact with hospital cases in the fourth year.

FIFTH YEAR

In the fifth year clinics are held at the General Hospital, Hotel Dieu and Ontario Hospital, and the work of this year is almost entirely clinical. Special instruction is also given in operative work in which the students assist in rotation and a few lectures are delivered on systematic surgery.

SIXTH YEAR

The sixth year is devoted chiefly to clinical surgery.

Special courses are also given at the General Hospital in the use of the cystoscope and urethral catheterization by Dr. Austin and in anesthesia by Dr. Keyes.

Clinics are held at the Kingston General Hospital, Rockwood Hospital and Hotel Dieu. In addition every possible opportunity is afforded the student throughout the session to attend operations performed by the members of the staff at the different hospitals, a limited number of the students being permitted to view the operation from the floor.

APPROVED TEXT-BOOKS

Rose and Carless, Russell Howard, Thompson and Miles. Whitman: *Orthopedic Surgery*. Pye: *Surgical Handicraft*. Scudder: *Fractures*. Wilson Cochrane: *Fractures*. Horsley: *Operative Surgery*. Choyce: *System of Surgery*. Bickham: *Surgery* (6 vols.), Nelson's *Surgery*. Lewis: *Practice of Surgery*. Walton, *Surgical Diagnosis*. *Surgical Clinics of North America*.

DEGREES CONFERRED

DEGREES CONFERRED AT THE ANNUAL CONVOCATION

MAY, 1928

Ernest James Anderson	Leslie David Livingstone
Edwin Arthur Barker	Horace Grant Mabee
William Price Bartels, B.A.	George Reid Marsh, B.A.
Harry Kennedy Board, B.A.	Ralph Donald MacNeill
Duncan Wilson Boucher	George Vincent McDonald, B.A.
Lyman Bruce Carruthers, B.A.	Samuel John McEvoy
Huntley William Chambers	Thomas Percival McGowan
Joseph Bonnar Cramer	Sherman William McIlmoyl, B.A.
George Daniel Denton	Clifford Douglas Moore
Thomas Telmont Dufour	Richard William Mungul
Morris Thomas Eissner, B.A.	Henry Simmons Murphy
George Connell Ferguson, B.A.	Cecil Reid Patience
John Wilfred Forster	Claud Halliday Ployart
Irvine Edward Gage, B.A.	Stuart Thackway Porter
Harold McKin Graham	Emil Smith, B.A.
Donald Malcolm Grant, B.A.	Richard Kemp Start
Sylvester Edmund Grimes	George Holbert Steacy
Gerald Eugene Grondin	Abraham Bernard Susman, B.A.
Herbert Edward Hanna	Eldon Reginald Tiffin, B.A.
Jason Albert Hannah, B.A.	John Edward Tilden
Frank Manley Higginson	Henry Laughlin Tobin
Clifford Evan Howard, B.A.	Carl Oswell Vrooman
Fred. Watson Jeffrey, B.A.	Norman Livingston Walker
Jack Horatio Joyner	William Roberts Webster
Howard Willis Justus	John Collis Baker Williams
Cecil William Kelley	Kenneth James Williams
James Francis Colman Kelly	Samuel Waring Willis, B.A.
Ronald Harry Kettle	Leland Duane Wilson
John Ewart Adyn Lindsay	

MEDALISTS AND HOLDERS OF SCHOLARSHIPS AND PRIZES

MEDALISTS IN MEDICINE

1925 No graduation.	1926 Nathan E. Berry
1927 Howard S. Mitchell, B.A.	1928 Geo. C. Ferguson, B.A.

MEDALISTS IN SURGERY

1925 No graduation.	1926 Alex. E. W. Ada, B.A.
1927 John Mann	1928 L. Bruce Carruthers, B.A.

THE N. F. DUPUIS SCHOLARSHIP

1925 L. Bruce Carruthers and Carl O. Vrooman	1926 W. Ford Connell
1927 Jos. A. Kearns and John E. Plunkett	1928 M. W. C. Feeney

THE NEW YORK ALUMNI ASSOCIATION SCHOLARSHIP

1925 Clarence H. Lewis	1926 Jos. A. Kearns
1927 Ernest C. Armstrong	1928 R. D. Ralph

THE DEAN FOWLER SCHOLARSHIP

1925 Archie G. Strang	1926 L. Bruce Carruthers, B.A.
1927 W. Ford Connell	1928 A. D. Wilson

THE ROBERT BRUCE SCHOLARSHIP

1925 John E. Plunkett	1926 Michael W. C. Feeney
1927 J. Clifford Samis	1928 Robert Johnston

THE DAVID EDWARD MUNDELL SCHOLARSHIP

1925 L. Quartus Bliss
1926 W. Alex. Newlands, B.A.
1927 Clarence E. Moore
1928 A. B. Susman, B.A.

FACULTY SCHOLARSHIPS

1925 W. Ford Connell, and W. Alexander Newlands, B.A.
1926 Donald H. Young, B.A., and John Mann
1927 Michael W. C. Feeney and L. Bruce Carruthers, B.A.
1928 K. A. Roberts and W. Ford Connell

CANADIAN NATIONAL COMMITTEE FOR MENTAL HYGIENE SCHOLARSHIP

1926 William H. Berry and Maxwell Gosse, B.A.
1927 Earle G. Halliday
1928 Geo. C. Ferguson, B.A.

DR. M. JAMES' PRIZE

1925 Nathan E. Berry 1926 John Lansbury
1927 Howard S. Mitchell, B.A. 1928 Howard M. Justus

PROFESSOR'S PRIZE IN MEDICINE AND CLINICAL MEDICINE

DR. JAMES MILLER'S PRIZE

PHARMACOLOGY PRIZES

1926 Richard W. Mungul (given by Dr. D. T. Smith) 1926 Samuel W. Willis and L. Duane Wilson, equal
1927 W. Ford Connell (given by Dr. Thomas Gibson)
1928 Joseph A. Kearns

PROFESSOR'S PRIZE IN SURGERY AND CLINICAL SURGERY

1927 John Mann 1928 Howard W. Justus

STUDENTS IN ATTENDANCE

SESSION 1928-1929

SIXTH YEAR

Kenneth E. Bellamy	Ottawa
John P. Bonfield	Ottawa
Richard J. Boyce	Kingston
Melville G. Boyd	Kingston
Kenneth J. W. Bromley	Sudbury
Harvey A. Brown	Toronto
Garfield E. Claxton	Nicholville, N.Y.
Wilfred J. Cochrane	North Bay
W. Ford Connell	Kingston
John H. Dennison	Newdale, Man.
James R. Dowling	Hamilton
Jack G. Dunlop, B.A.	Tsu, Ise, Japan
Samuel A. Fisher	Niagara Falls
Arthur W. Friend, B.A.	Kingston
Omar W. Gilmour, B.A.	Kingston
William A. Heard	Markdale
Edward Y. Handford	Renfrew
Arthur E. Harbeson, B.A.	Cornwall, Ont.
M. Stewart Heddle	Caledonia
William J. Henderson	Kingston
McLean Houze	Lombardy
Harry B. Kidd	Kemptville
Donald G. Leatherdale, B.A.	Ridgetown
Clarence H. Lewis	Ottawa
A. Bruce MacDonell	Lancaster, Ont.
Edward F. MacIntosh	Spencerville
Robert A. MacPherson	Fort Erie
Robert H. McCreary, B.A.	Pakenham
Clifford H. MacNeill	Sussex, N.B.
A. Malcolm E. MacPherson, B.A.	Prescott
Gordon A. Mellow, B.A.	Kingston
J. T. Grant Minnes	Kingston

Maurice R. Moore, B.A.	Belleville
Gordon W. Mylks, B.A.	Kingston
Wm. Chesley Pitts, B.A.	Alberni, B.C.
Thomas F. Rutherford	Peterboro
Samuel Ryan	Kingston
Hugh McL. Scott	Puslinch
T. Harry Seldon	Exeter
Archie T. Shannette	Williamsburg
John T. Shea	Stirling
Robert M. Stringer	Hamilton
Walter A. Thompson	Hamilton
W. Basil Thompson	Gananoque
Karl H. Trebilcock	Hamilton
Fred. A. Vokes	Nanticoke
Kenneth B. Waller	Hamilton
Wm. A. Watson, B.A.	Kingston
W. Gordon Watt	Pembroke
Lloyd E. Watts	Kingston
Charles A. Whitty	Kingston
Clifford S. Wilson	Humboldt, Sask.
A. E. Lacey Winsor	Wesleyville, Nfld.
Samuel H. Winston	Kingston

FIFTH YEAR

Wm. C. Arkinstall, B.A.	Dunvegan
Nolan H. Baird	Toronto
Robert R. Barnes, B.A.	Ottawa
Clarence H. Berry	Tillsonberg
Wilfred E. Blair	Perth
Frederick W. Bowers	Sulphide
Thos. M. Brown	Ottawa
Loftus L. Bryan	Lansdowne
Clifford R. Burnfield	Milton
William S. Campbell	Alliston
Jas. V. A. Cavanagh	Ottawa
Charles A. Cleland	South Mountain
James A. Cummins	Belleville
William S. Elliott	Tweed
William H. English	Sunderland, Eng.
Karl J. Haig	Campbellford
James B. Hutchison	Gorrie
Joseph A. Kearns	Quyon, Que.
Karl A. Kraft	Hamilton
Edward H. Lossing	Kingston

Maxwell T. Macfarland, B.A.	Ottawa
Gordon B. Macpherson	Kingston
William D. J. McCarthy	Kingston
James A. McCullough	Oswego, N.Y.
John J. McGrath	Kingston
Ernest A. McKercher	Watford
Kenneth E. McQueen	Kingston
William S. Millman	Hamilton
Charles D. T. Mundell, B.Com.	Kingston
William H. Newman	Lindsay
Robt. T. Percival, B.A.	Kingston
John E. Plunkett	Peterborough
Harry C. Robinson	Hamilton
George B. Sexton	Strathroy
Murton R. Shaver, B.A.	Picton
Manville W. Sloane	Sarnia
Carl Smith, B.A.	Kitchener
Isaac Sutton	Hamilton
Stanley Trenouth, B.A.	Watford
William W. Wade	Toronto
Charles H. A. Walters	Belleville
John C. Whyte	Kingston
Arthur D. Wilson	Enterprise
Egerton H. M. Young	Peterborough
Ernest M. Young	Westboro
Donald H. Young, B.A.	Walkerville

FOURTH YEAR

Richard C. Adams	Trenton
James D. Allen	Ottawa
Ross E. Anderson	Kingston
Ernest C. Armstrong	Hamilton
Victor J. Berry	Seeley's Bay
Ralph L. Bird	Belleville
Harry W. Blakely	Thomasburg
Edward M. Bohan	Kingston
Jack G. Brownlee	Toronto
Clarence A. Buck	Milton
Glenn S. Burton	Kemptville
Gerald A. Chapin	Brockville
William M. Cliff	Kingston
Richard L. Cockfield	Toronto
Robert S. Daymond	Saskatoon, Sask.
Ernest R. Ellicott	Hamilton

Michael W. C. Feeney	Marmora
Deward O. Ferris	Niagara Falls
Robert C. Franklin	Simcoe
Ian M. Gourley	Kingston
Gordon A. Graham	Tottenham
Harry P. Granger	Hamilton
William G. Houston	Fort William
Michael J. Howard	Ottawa
David C. Johnston	St. John's, Nfld.
Ambrose J. Liston	Hamilton
Arthur H. Logan	Brockville
George E. Lynch	Kingston
Edwin Malkin	Orrville
Patrick J. Maloney	Eganville
Earl J. Murphy	Kingston
Harold R. Murphy	Fort William
Reid A. Murray	Hamilton
John E. Nichol	Ottawa
Haddon R. Rabb	Poltimore, Que.
Ernest E. Reinke	Eganville
Laurence P. Roberts	Brockville
Frederick W. Snedden	Pakenham
Willis A. Strong	Smithville
Frederick J. J. Taylor	Toronto
Gordon W. Telfer	Smithville
John T. Tweddell	Kingston
Cecil D. Wallace	North Gower
Francis C. White	Kingston
Carl J. Whytock, B.Com.	Madoc

THIRD YEAR

Louis Baker	Winnipeg, Man.
Levi M. Barrie	Arnprior
Harry L. Batstone	Toronto
Arthur G. Berry	Deloro
Kenneth A. Bibby	Kingston
William C. Blackwell	Cannington
Eldon M. Boyd	Kingston
Robert C. Brigham	Hanover
Desmond T. Burke	Ottawa
Ronald C. Burr	Bloomfield
Kenneth C. Butler	Ottawa
Wilfrid L. Christie	Port Elgin
Robt. W. M. Clark	Niagara Falls

Harold G. Deyo	Kingston
Howard R. Duval	South River
Purvis W. Earle	Mallorytown
Max Echenberg	Sherbrooke, Que.
Reginald L. Empey	Napanee
John W. Ewing	Westport
William F. Glen	Briercrest, Sask.
Oscar E. Gomoll	Powassan
William J. Gordon	Kemptville
Kenneth C. Gray	Gananoque
Harrison S. Gross	Ottawa
Richard C. Gross	Ottawa
John M. Growse	Niagara Falls
Orville L. Henderson	Morden, Man.
Walter J. Houghtling	Kingston
Clarence E. Irvine	Smithville
William M. James	Kingston
Norman W. Kerr	Elgin
Lawrence R. LeFave	Oshawa
Robt. A. McCaig	Sault Ste. Marie
Clifford R. MacDowall	Almonte
Gilbert J. McKelvey	Kingston
William R. McCarty	Lindsay
Peter N. McLachlan	Lochaber Bay, Que.
Trevor M. McLennan	Beaverton
Benj. Morris	Kingston
Hugh M. Munro	Apple Hill
George P. Nash	Kingston
John J. O'Connell	Madoc
Robert Orange	Sudbury
Thos. J. Orford	Toronto
Robert D. Ralph	North Augusta
Kenneth J. Regan	Frankford
Kenneth A. Roberts	Actinolite
J. Clifford Samis	Cobourg
Thomas H. Smellie	Russell, Man.
Elmer A. Stuart	Lambertville, N.B.
Reginald E. Taft	Kingston
Quene K. Yip	Vancouver, B.C.
Robert J. Young	Ennismore

SECOND YEAR

Walter M. Adams	Brockville
Frederick A. Alexander	Arden
Elmer D. Bateman	Parham
Clarence Benton	Apple Hill
Ben. Brachman	Edenwold, Sask.
William G. Brophy	Kingston
Harold E. Bulford	Hamilton
Percy C. Calnan	Belleville
Howard W. Carter	Sarnia
B. Ward Casselman	Sault Ste. Marie
Colmer B. Davis	Kingston
George W. Davis	Gananoque
Douglas S. Forster	Kingston
Morton B. George	Listowel
Albert M. Glover	Kingston
Gordon R. Gray	Kingston
William A. Hargrove	Toronto
John P. Harvey	Lyndhurst
Jerome Hergott	Mildmay
Maurice Hershey	Fort Erie
John W. Hiltz	Toronto
Roland D. Howatt	Charlottetown, P.E.I.
George G. Hunt	Newburgh
William H. Jacques	West Hill
Robert Johnston	Kirkland Lake
Athol S. Kenney	Kazubazua, Que.
Francis A. Kinnaird	Ottawa
Leo J. Koen	Sydenham
Edw. A. Larkin	St. John's, Nfld.
William S. Lehto	Niagara Falls
John E. Lewis	Ottawa
Jas. A. F. Livingston	Morden, Man.
Arnold K. Mainse	Lyndhurst
Vernon C. Maloney	Sundridge
Harold F. B. Miller	Kemptville
Alexander D. Milligan	Toronto
Amer H. Moore	North Bay
Duncan T. R. McColl	Blenheim
T. John Morin	Lindsay
Wallace McCouan	Smith's Falls
Wilfrid L. J. McDonald	Wolfe Island
John J. McGuire	Smith's Falls

Harrison L. McLaughlin	Ottawa
William R. Muirhead	Carleton Place
John A. Percival	Kingston
John A. Platt	Wolseley, Sask.
Joseph J. Pinch, Jr.	Sault Ste. Marie
Duncan S. Pugh	Milverton
William M. Purvis	Mallorytown
Paul F. Putman	Ottawa
William C. Rennick	Tregarva, Sask.
John L. Robertson	Belleville
Samuel Robinson	Kingston
Samuel Shenkman	Ottawa
Dennis M. Smith	Burlington
Jas. H. Smith	Smith's Falls
Douglas B. Summers	St. Thomas
Benj. R. Susman	Kingston
William Taylor	Hamilton
Thos. F. Taylor	Fergus Falls, Minn.
Clifford V. Tisdale	Brockville
William R. Wesley	Thornhill
Allen G. Wilby	Locust Hill

FIRST YEAR

Michael B. Atamian	Hamilton
John J. E. Baker	Gananoque
Henry E. D. Bateman	Parham
Alexander D. Bennett	Moose Jaw, Sask.
Philip Bernstein	Cochrane
Merton A. Campbell	Elgin
Victor Cecilioni	Hamilton
Arthur P. C. Clark	Kingston
William J. Earle	Smith's Falls
Walter E. Edgington	Simcoe
Frederick W. Eggert	Killaloe
Frederick G. Elliott	Prescott
Charles F. Galway	Belleville
William E. Glass	Hamilton
Jack E. Gorman	Hamilton
Foster J. Hamilton	Port Hope
James S. Hazen	Hamilton
Albert L. Henderson	Kingston
Joseph D. Herman	Victoria, B.C.

Arthur W. Johnston	Long Lake
Joseph E. Josephson	Hamilton
John C. Lacey	Tamworth
Lionel E. Limoges	North Bay
Wesley J. Lisk	Eganville
Ronald H. Mackay	Seaforth
James G. McBroom	Washburn
Cyril H. McGowan	Cobalt
John E. McIntosh	Williamsburg
William N. McKee	Kingston
Norman I. McLeod	Kingston
John P. McManus	Bronx, New York, N.Y.
Joseph F. A. McManus	Bronx, New York, N.Y.
Daniel C. McVicker	Deseronto
Allen G. Minnes	Kingston
Neil E. Morrison	Greenwood, B.C.
Robert R. Mutrie	Guelph
Joseph M. O'Connor	Kingston
Robert E. Ralph	Hamilton
Leonard A. Remus	Pembroke
Raymond F. Ross	Belleville
Ernest A. Sanders	Kingston
John L. Shappert	Goodeve, Sask.
William R. Slack	Smith's Falls
Robert A. Stewart	Ridgeway
William Stewart	Dundee, Scotland
Thomas G. Stoddart	Ottawa
William I. Taylor	Lindsay
Donald W. A. Templeton	Sault Ste. Marie
Royal M. Todd	Stratford
Henry J. Tweddell	Kingston
Gerald C. Walker	Kingston
Perry E. White	Kingston
George F. Wilcock	Lachine, Que.
Wing Y. Wong	Vancouver, B.C.

SUMMARY

Sixth Year	54
Fifth Year	46
Fourth Year	45
Third Year	53
Second Year	62
First Year	54
<hr/>	
Total.....	314

UNIVERSITY PUBLICATIONS

The following publications are issued by the University and, except where a price is mentioned, will be sent free of charge to all applicants.

CALENDAR OF THE FACULTY OF ARTS.

COURSES IN COMMERCE AND ADMINISTRATION.

CALENDAR OF THE FACULTY OF APPLIED SCIENCE.

CALENDAR OF THE FACULTY OF MEDICINE.

CALENDAR OF QUEEN'S THEOLOGICAL COLLEGE.

ANNOUNCEMENT OF THE SUMMER SCHOOL.

REQUIREMENTS FOR MATRICULATION.

ILLUSTRATED PAMPHLET.

EXAMINATION PAPERS. (Arts, 50 cents; Science and Medicine, each 25 cents.)

